

WEST PENN **WIRE** *Since 1971*

AV, SECURITY & NETWORKING SOLUTIONS



MASTER CATALOG

Communication & Control | Audio | Networking | Video | Security | Specialty Applications

www.westpennwire.com | Toll Free: 800.245.4964

Your Link to Connectivity

West Penn Wire (WPW) designs and manufactures wires, cables, harnesses and related products for small, mid-size and Fortune 500 companies worldwide. **WPW** was established in 1971 and is part of the Belden group of companies (NYSE:BDC).

Our design, engineering and manufacturing excellence enable customers to obtain solutions that meet the most demanding requirements for data, audio and video applications.

We complement our standard offerings with custom solutions for commercial, healthcare, education, institutional and entertainment facilities.

WPW is based in Washington, PA near Pittsburgh, and has distribution centers in Washington, PA, and Sacramento, CA.



Communication & Control | Audio | Networking | Video | Security | Specialty Applications

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TABLE OF CONTENTS

Low Voltage Communication & Control Cables

| | |
|------------------------------------------------------------|--------------|
| Non-Plenum Communication & Control Cables | 1-17 |
| Plenum Communication & Control Cables..... | 18-26 |

Audio Cables & Accessories

| | |
|-------------------------------------------------|--------------|
| Pro-Audio - Line / Mic Level Audio | 27-34 |
| Pro-Audio Accessories | 35-37 |
| Speaker Level Cables | 38-42 |
| Speaker Level Accessories | 43-44 |

Networking Cables & Accessories

| | |
|-----------------------------------------------------------------|--------------|
| Network Cables & Accessories(Cat7, Cat6, Cat5E)..... | 45-53 |
| Serial Digital Data Cables | 54-57 |
| Fiber Optic Cables..... | 58-60 |
| Fiber Optic Accessories..... | 61-66 |

Video Cables & Accessories

| | |
|------------------------------------------------------------|--------------|
| Digital Video Cables HD-SDI & Accessories | 67-68 |
| AV Network Cables (HDBaseT & IPBaseT) | 69-71 |
| HDMI Assemblies | 72-73 |
| Professional Analog Cables | 74-77 |
| Pro Analog Video Accessories | 78 |
| Analog CCTV Cables | 79-84 |
| CCTV Accessories | 85-87 |
| CATV/MATV Cables & Accessories..... | 88-93 |
| RF 50Ω Coaxial Cables | 94-96 |

Security Cables & Accessories

| | |
|------------------------------------|----------------|
| Fire Alarm Cables | 97-107 |
| Access Control Cables | 108-116 |

Specialty Applications

| | |
|-----------------------------------------------|----------------|
| Aquaseal® Water Resistant Cables | 117-124 |
| Halogen Free Cables..... | 125-128 |

Technical Reference

| | |
|----------------------------------|----------------|
| Technical Reference | 129-140 |
|----------------------------------|----------------|

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We complement our standard offerings with custom solutions for commercial, healthcare, education, institutional and entertainment facilities.

West Penn Wire is based in Washington, PA, near Pittsburgh, and has distribution centers in Washington, PA and Sacramento, CA.

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Hours of Operation:

8am to 5pm EST. Monday through Friday
24 hour product selection through our web site:

www.westpennwire.com

Environmental Compliance: RoHs

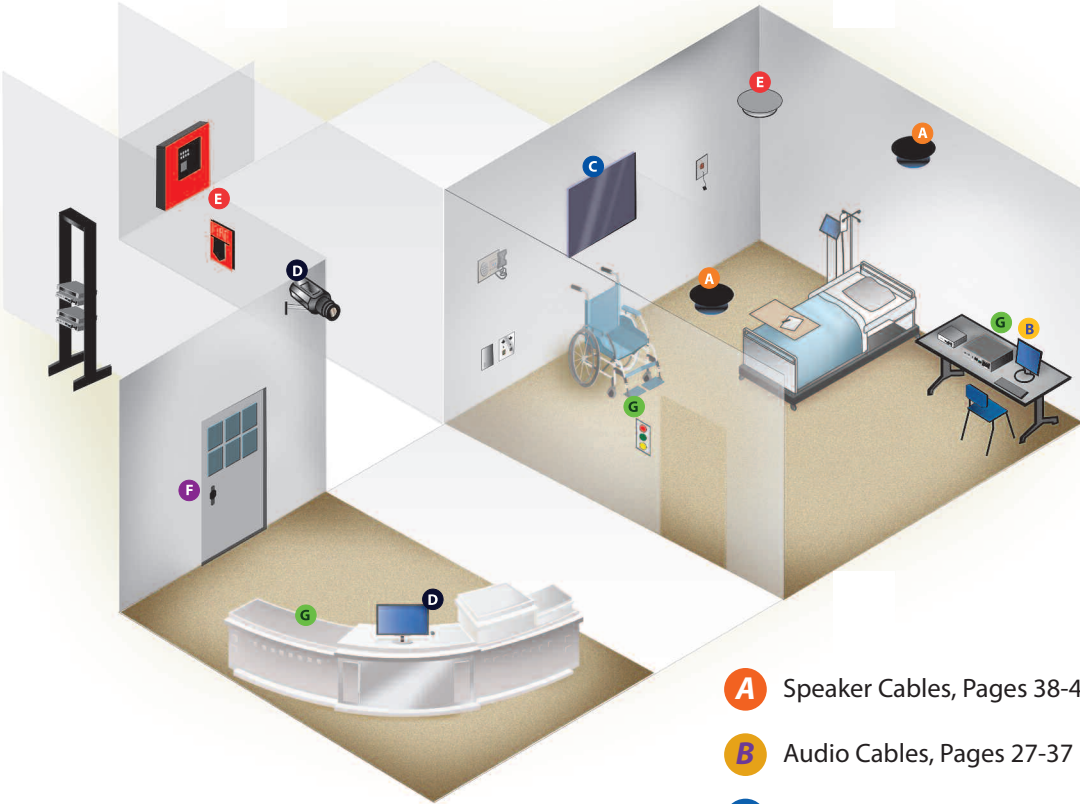
In order to meet global environmental product requirements - in part specified by the European Union's Restriction on Hazardous Substance (RoHS) Directive, the European Union's End-of-Life Vehicle Directive (ELV), the Waste Electrical and Electronic Equipment (WEEE) Directive and California Proposition 65, West Penn Wire has developed restricted materials specifications to encompass all raw materials, parts, components, or products that are ultimately incorporated into West Penn Wire Product.

Application Drawings

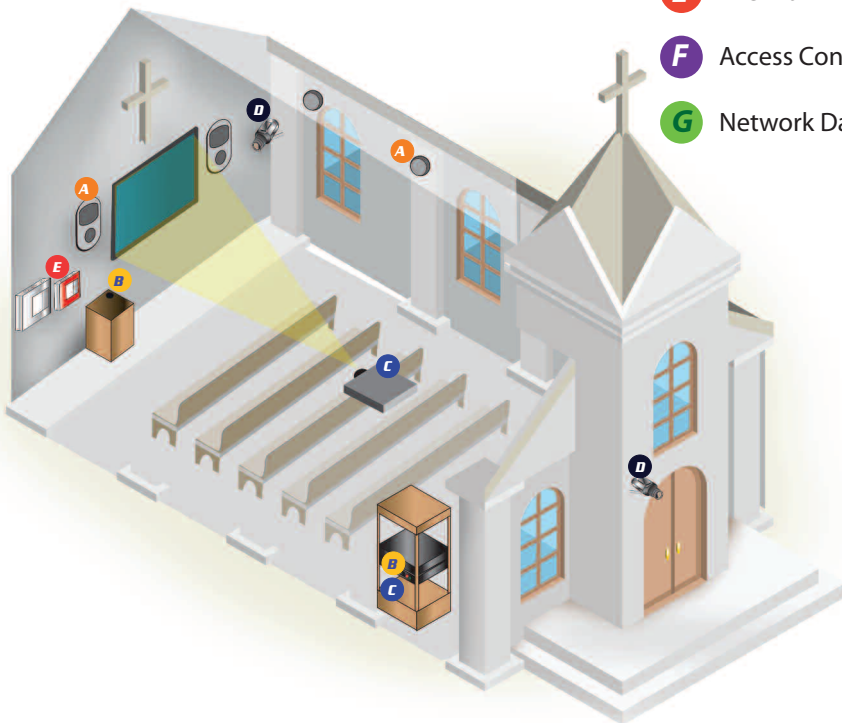
| | |
|---------------------------------|-----|
| Healthcare & Houses of Worship | iii |
| Performing Arts & Stadium/Arena | iv |



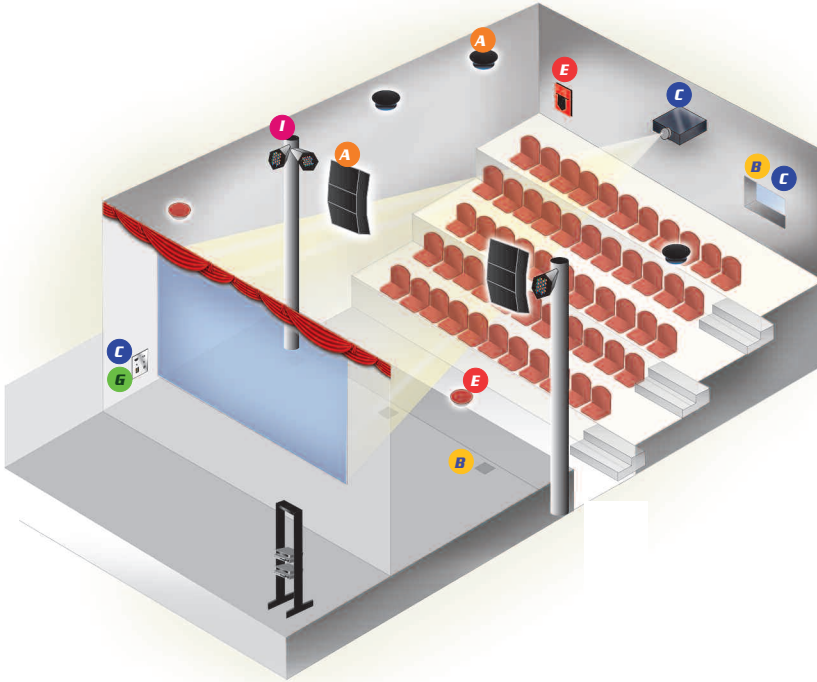
Applications | Healthcare & Houses of Worship



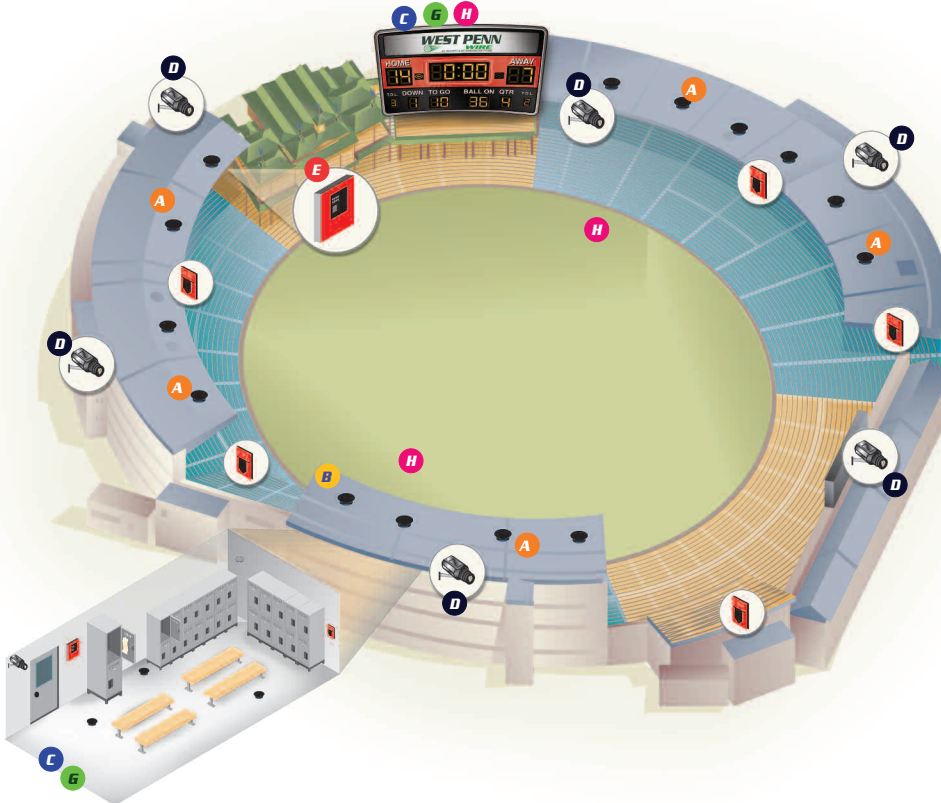
- A** Speaker Cables, Pages 38-44
- B** Audio Cables, Pages 27-37
- C** Pro-Digital Video, Pages 67-72
- D** Analog CCTV, Pages 79-87
- E** Fire Alarm Cables, Pages 97-107
- F** Access Control Cables, Pages 108-116
- G** Network Data Cables, Pages 45-53



Applications | Performing Arts & Stadium/Arena



- A** Speaker Cables, Pages 38-44
- B** Audio Cables, Pages 27-37
- C** Pro-Digital Video, Pages 67-72
- D** Analog CCTV, Pages 79-87
- E** Fire Alarm Cables, Pages 97-107
- G** Network Data Cables, Pages 45-53
- H** Fiber Optic, Pages 58-66
- I** Serial Data Cables, Pages 54-57



WEST PENN



AV, SECURITY & NETWORKING SOLUTIONS

COMMUNICATION AND CONTROL

Non-Plenum

Plenum

Communication & Control | Audio | Networking | Video | Security | Specialty Applications

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COMMUNICATION AND CONTROL

Low Voltage & Control - Non-Plenum

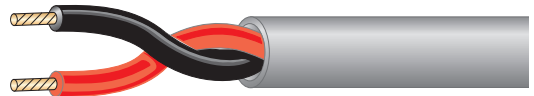
| | |
|------------------------------------------------|-------|
| Two Conductor Unshielded | 1 |
| Three Conductor Unshielded..... | 2 |
| Four Conductor Unshielded | 3 |
| Multiple Conductor 22 AWG Unshielded..... | 4 |
| Multiple Conductor 18 AWG Unshielded..... | 5 |
| Multiple Conductor 22 AWG Shielded | 6 |
| Multiple Conductor 20 AWG Shielded | 7 |
| Multiple Conductor 18 - 16 Overall Shield..... | 8 |
| Two Conductor Shielded | 9 |
| Three Conductor Shielded | 10 |
| Shielded / Unshielded | 11 |
| Miniature Audio Cables Shielded..... | 12 |
| Media Control Cables | 13 |
| Multiple Pair - Overall Shielded | 14-15 |
| Multiple Pair - Individually Shielded..... | 16-17 |

Low Voltage & Control - Plenum

| | |
|---------------------------------------------|-------|
| Two Conductor Unshielded | 18 |
| Multiple Conductor Unshielded..... | 19-21 |
| Multiple Pair Unshielded..... | 21 |
| Two Conductor Shielded..... | 22 |
| Multiple Conductor Shielded | 23-24 |
| Shielded / Unshielded | 25 |
| Multiple Pair - Individually Shielded | 26 |



Two Conductor / Unshielded



Applications:

- Indoor for:
- Speaker Level
- Audio Circuits
- Low Voltage Power
- Background Music
- Division 27 41 00
- Division 27 51 00
- Division 28 05 13

Description:

- ASTM Bare Copper
- Thermoplastic Insulation
- Short Overall Twist Lengths
- Overall PVC Jacket

Rating:

- NEC Type CMR or CL3R
- (UL)-C(UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1666

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|--------------------------------|-----------------------------|-----------|-------------------------|------------------|----------|------------------|
| 220 | 2 | 22 AWG Solid 17.5 Ω/Mft | .008 | None | .017 | .118 | CMR | -- |
| 221 | 2 | 22 AWG (7x30) 17 Ω/Mft | .007 | None | .017 | .120 | CMR | -- |
| 222 | 2 | 20 AWG (7x28) 10.5 Ω/Mft | .008 | None | .017 | .138 | CMR | -- |
| 224 | 2 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | None | .017 | .156 | CMR | -- |
| 225 | 2 | 16 AWG (19x29) 4.2 Ω/Mft | .008 | None | .017 | .182 | CMR | -- |
| 226 | 2 | 14 AWG (19x27) 2.7 Ω/Mft | .010 | None | .017 | .230 | CL3R | -- |
| 227 | 2 | 12 AWG (19x25) 1.7 Ω/Mft | .010 | None | .017 | .260 | CL3R | -- |

| Insulation Color Code | |
|-------------------------|----------|
| Primary Color Code | |
| 220, 221, 222, 224, 225 | 226, 227 |
| 1. Black | 1. Black |
| 2. Red | 2. Red |

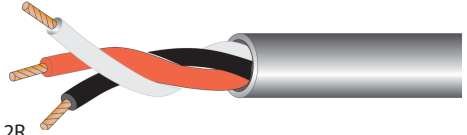
| Jacket Color Code |
|------------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |

Notes:

- Selected Plenum Versions Plenum Section
- Selected Indoor/Outdoor [Aquaseal Water Resistant®](#) Versions, see Aquaseal Catalog Section, Pages 121-122
- Zero Halogen Versions, see Page 126
- Cables are packaged in our Advantage Box. Larger AWG sized cables may be on a reel.
- Rip Cord
- 500ft put up lengths may be available, minimum quantities may apply.



Three Conductor / Unshielded



Applications:

- Indoor for:
- Speaker Level
- Audio Circuits
- Low Voltage Power
- Background Music
- Division 27 41 00
- Division 27 51 00
- Division 28 05 13

Description:

- ASTM Bare Copper
- Thermoplastic Insulation
- Cabled Construction
- Overall PVC Jacket

Rating:

- NEC Type CMR or CL2R
- (UL)-C(UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1666

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|--------------------------------|-----------------------------|-----------|-------------------------|------------------|----------|------------------|
| 230 | 3 | 22 AWG Solid 17.5 Ω/Mft | .008 | None | .017 | .125 | CMR | -- |
| 231 | 3 | 22 AWG (7x30) 17 Ω/Mft | .007 | None | .017 | .130 | CMR | -- |
| 232 | 3 | 20 AWG (7x28) 10.5 Ω/Mft | .008 | None | .017 | .146 | CMR | -- |
| 234 | 3 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | None | .017 | .168 | CMR | -- |
| 235 | 3 | 16 AWG (19x29) 4.2 Ω/Mft | .009 | None | .017 | .198 | CMR | -- |
| 236 | 3 | 14 AWG (19x27) 2.7 Ω/Mft | .010 | None | .017 | .240 | CL3R | -- |
| 238 | 3 | 12 AWG (19x25) 1.7 Ω/Mft | .010 | None | .017 | .281 | CL3R | -- |

Insulation Color Code

Primary Color Code

1. Black
2. Red
3. White

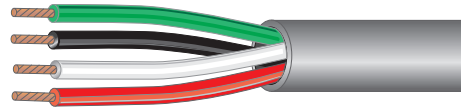
Notes:

- Selected Plenum Versions - Plenum Section
- Cables are packaged in our Advantage Box.
- Larger AWG sized cables may be on a reel.
- Speaker Connectors are listed in Speaker Level Section
- Rip Cord
- 500ft put up lengths may be available, minimum quantities may apply.

Jacket Color Code

Stocked jacket colors vary by item.
For available jacket color, please contact our
Customer Service Department:
800-245-4964

Four Conductor / Unshielded



Applications:

- Indoor for:
- Speaker Level
- Audio Circuits
- Low Voltage Power
- Background Music
- Division 27 41 00
- Division 27 51 00
- Division 28 05 13

Description:

- ASTM Bare Copper
- Thermoplastic Insulation
- Cabled Construction
- Overall PVC Jacket

Rating:

- NEC Type CMR or CL3R
- (UL)-C(UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1666

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|--------------------------------|-----------------------------|-----------|-------------------------|------------------|----------|------------------|
| 240 | 4 | 22 AWG Solid 17.5 Ω/Mft | .008 | None | .017 | .134 | CMR | -- |
| 241 | 4 | 22 AWG (7x30) 17 Ω/Mft | .007 | None | .017 | .138 | CMR | -- |
| 242 | 4 | 20 AWG (7x28) 10.5 Ω/Mft | .008 | None | .017 | .159 | CMR | -- |
| 244 | 4 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | None | .017 | .183 | CMR | -- |
| 245 | 4 | 16 AWG (19x29) 4.2 Ω/Mft | .009 | None | .017 | .217 | CMR | -- |
| 246 | 4 | 14 AWG (19x27) 2.7 Ω/Mft | .010 | None | .017 | .278 | CL3R | -- |
| 248 | 4 | 12 AWG (19x25) 1.7 Ω/Mft | .010 | None | .017 | .320 | CL3R | -- |

| Insulation Color Code | |
|-----------------------|-------|
| Primary Color Code | |
| 1. | Black |
| 2. | Red |
| 3. | White |
| 4. | Green |

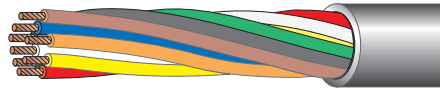
| Jacket Color Code |
|---------------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |

Notes:

- Selected Plenum Versions - See Plenum Section
- Cables are packaged in our Advantage Box.
- Larger AWG sized cables may be on a reel.
- Rip Cord
- 500ft put up lengths may be available, minimum quantities may apply.



Multiple Conductor 22 AWG / Unshielded



Applications:

- Indoor for:
- Speaker Level
 - Audio Circuits
 - Low Voltage Power
 - Instrumentation and Control
 - Division 28 05 13.16

Description:

- ASTM Bare Copper
- Thermoplastic Insulation
- Cabled Construction
- Overall PVC Jacket

Rating:

- NEC Type CMR
- (UL)-C(UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1666

Standard spool size 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|-----------|-------------------------|------------------|----------|------------------|
| 855 | 5 | 22 AWG (7x30) 17 Ω/Mft | .007 | None | .017 | .150 | CMR | -- |
| 270 | 6 | 22 AWG (7x30) 17 Ω/Mft | .007 | None | .017 | .163 | CMR | -- |
| 271 | 8 | 22 AWG (7x30) 17 Ω/Mft | .007 | None | .017 | .176 | CMR | -- |
| 272 | 10 | 22 AWG (7x30) 17 Ω/Mft | .007 | None | .017 | .218 | CMR | -- |
| 274 | 15 | 22 AWG (7x30) 17 Ω/Mft | .007 | None | .017 | .251 | CMR | -- |

| Insulation Color Code | | |
|-----------------------|-----------------|-----------------|
| Primary Color Code | | |
| 1. Black | 8. Yellow | 15. White/Green |
| 2. Red | 9. Purple | |
| 3. White | 10. Gray | |
| 4. Green | 11. Pink | |
| 5. Brown | 12. Tan | |
| 6. Blue | 13. White/Black | |
| 7. Orange | 14. White/Red | |

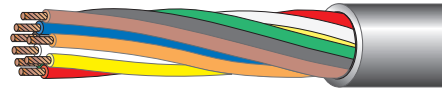
Notes:

- Cables are packaged in our Advantage Box.
- Larger AWG sized cables and Higher Paired cables may be on a reel.
- Rip Cord
- 500ft put up lengths may be available, minimum quantities may apply.

Jacket Color Code

Stocked jacket colors vary by item.
For available jacket color, please contact our Customer Service Department:
800-245-4964

18 AWG Multiple Conductor / Unshielded



Applications:

- Speaker Level
- Audio Circuits
- Low Voltage Power
- Instrumentation and Control
- Division 28 05 13.16

Description:

- ASTM Bare Copper
- Thermoplastic Insulation
- Cabled Construction
- Overall PVC Jacket

Rating:

- NEC Type CMR
- (UL)-C(UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1666

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|-----------|-------------------------|------------------|----------|------------------|
| 280 | 5 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | None | .017 | .205 | CMR | -- |
| 281 | 7 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | None | .017 | .225 | CMR | -- |
| 282 | 9 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | None | .017 | .263 | CMR | -- |
| 283 | 12 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | None | .017 | .298 | CMR | -- |
| 284 | 15 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | None | .020 | .348 | CMR | -- |
| 285 | 20 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | None | .020 | .372 | CMR | -- |

| Insulation Color Code | | |
|-----------------------|-----------------|------------------|
| Primary Color Code | | |
| 1. Black | 8. Yellow | 15. White/Green |
| 2. Red | 9. Purple | 16. White/Orange |
| 3. White | 10. Gray | 17. White/Blue |
| 4. Green | 11. Pink | 18. White/Brown |
| 5. Brown | 12. Tan | 19. White/Yellow |
| 6. Blue | 13. White/Black | 20. White/Purple |
| 7. Orange | 14. White/Red | |

Notes:

- Cables are packaged in our Advantage Box.
- Larger AWG sized cables and Higher Paired cables may be on a reel.
- Rip Cord
- 500ft put up lengths may be available, minimum quantities may apply.

Jacket Color Code

Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964



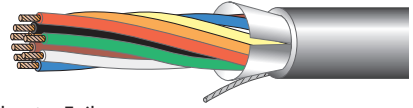
22 AWG Multiple Conductor / Overall Shielded

Applications:

- Indoor for:
- Speaker Level
- Audio Circuits
- Low Voltage Power
- Access Control - Reader
- Division 27 51 00
- Division 28 05 13.16

Description:

- ASTM Bare Copper
- Thermoplastic Insulation
- Overall Shield 100% Coverage of Aluminum Polyester Foil with 24 AWG Strd. Tinned Copper Drain Wire
- Cabled Construction
- Overall PVC Jacket



Rating:

- NEC Type CMR
- (UL)-C(UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1666

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|------------------|-------------------------|------------------|----------|-------------------------|
| 3241 | 4 | 22 AWG (7x30) 17 Ω/Mft | .007 | Al. Foil 100% | .017 | .142 | CMR | 55 pf/ft* 99 pf/ft** |
| 3855 | 5 | 22 AWG (7x30) 17 Ω/Mft | .007 | Al. Foil 100% | .017 | .154 | CMR | 55 pf/ft* 99 pf/ft** |
| 3270 | 6 | 22 AWG (7x30) 17 Ω/Mft | .007 | Al. Foil 100% | .017 | .167 | CMR | 55 pf/ft* 99 pf/ft** |
| 3271 | 8 | 22 AWG (7x30) 17 Ω/Mft | .007 | Al. Foil 100% | .017 | .182 | CMR | 55 pf/ft* 99 pf/ft** |
| 3272 | 10 | 22 AWG (7x30) 17 Ω/Mft | .010 | Al. Foil 100% | .017 | .222 | CMR | 55 pf/ft* 99 pf/ft** |
| 3274 | 15 | 22 AWG (7x30) 17 Ω/Mft | .010 | Al. Foil 100% | .020 | .255 | CMR | 55 pf/ft* 99 pf/ft** |

| Insulation Color Code | | |
|-----------------------|-----------------|-----------------|
| Primary Color Code | | |
| 1. Black | 8. Yellow | 15. White/Green |
| 2. Red | 9. Purple | |
| 3. White | 10. Gray | |
| 4. Green | 11. Pink | |
| 5. Brown | 12. Tan | |
| 6. Blue | 13. White/Black | |
| 7. Orange | 14. White/Red | |

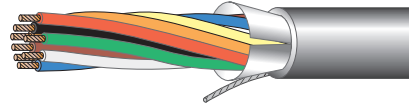
| Jacket Color Code |
|------------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |

- * Capacitance between conductors.
- ** Capacitance between one conductor and the other connected to the shield.

Notes:

- Selected Plenum Versions, see - Plenum Section
- Cables are packaged in our Advantage Box.
- Larger AWG sized cables and Higher Paired cables may be on a reel.
- Rip Cord
- 500ft Put up lengths may be available, minimum quantities may apply.

Multiple Conductor 20 AWG / Overall Shielded



Applications:

- Speaker Level
- Audio Circuits
- Low Voltage Power
- Instrumentation and Control
- Division 28 05 13.16

Description:

- ASTM Bare Copper
- Thermoplastic Insulation
- Overall Shield 100% Coverage of Aluminum Polyester Foil with 24 AWG Strd. Tinned Copper Drain Wire
- Cabled Construction
- Overall PVC Jacket

Rating:

- NEC Type CMR
- (UL)-C(UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1666

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|------------------|-------------------------|------------------|----------|--------------------------|
| 3011 | 4 | 20 AWG (7x28) 10.5 Ω/Mft | .008 | Al. Foil 100% | .015 | .163 | CMR | 60 pf/ft* 108 pf/ft** |
| 3262 | 5 | 20AWG (7x28) 10.5 Ω/Mft | .008 | Al. Foil 100% | .015 | .179 | CMR | 60 pf/ft* 108 pf/ft** |
| 3263 | 7 | 20 AWG (7x28) 10.5 Ω/Mft | .008 | Al. Foil 100% | .015 | .198 | CMR | 60 pf/ft* 108 pf/ft** |
| 3264 | 9 | 20 AWG (7x28) 10.5 Ω/Mft | .008 | Al. Foil 100% | .015 | .229 | CMR | 60 pf/ft* 108 pf/ft** |
| 3265 | 12 | 20 AWG (7x28) 10.5 Ω/Mft | .008 | Al. Foil 100% | .015 | .259 | CMR | 60 pf/ft* 108 pf/ft** |

| Insulation Color Code | |
|-----------------------|-----------|
| Primary Color Code | |
| 1. Black | 7. Orange |
| 2. Red | 8. Yellow |
| 3. White | 9. Purple |
| 4. Green | 10. Gray |
| 5. Brown | 11. Pink |
| 6. Blue | 12. Tan |

| Jacket Color Code |
|------------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |

- * Capacitance between conductors.
- ** Capacitance between one conductor and the other connected to the shield.

Notes:

- Cables are packaged in our Advantage Box
- Larger AWG sized cables and Higher Paired cables may be on a reel
- Rip Cord
- 500ft put up lengths may be available, minimum quantities may apply.



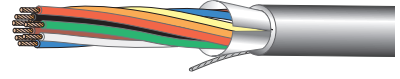
18 & 16 AWG Multiple Conductor / Overall Shielded

Applications:

- Indoor for:
- Audio Circuits
- Low Voltage Power
- Access Control - Reader
- Division 27 51 00
- Division 28 05 13.16

Description:

- ASTM Bare Copper
- Thermoplastic Insulation
- Overall Shield 100% Coverage of Aluminum Polyester
Foil with 24 AWG Strd. Tinned Copper Drain Wire
- Cabled Construction
- Overall PVC Jacket



Rating:

- NEC Type CMR
- (UL)-C(UL) Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|---------------|-------------------------|------------------|----------|------------------------|
| 3244 | 4 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | Al. Foil 100% | .017 | .187 | CMR | 68 pf/ft* 122 pf/ft |
| 3280 | 5 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | Al. Foil 100% | .017 | .209 | CMR | 68 pf/ft* 122 pf/ft |
| 3021 | 6 | 18 AWG (7x26) 6.6 Ω/Mft | .008 | Al. Foil 100% | .017 | .225 | CMR | 68 pf/ft* 122 pf/ft |
| 3281 | 7 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | Al. Foil 100% | .017 | .230 | CMR | 68 pf/ft* 122 pf/ft |
| 3282 | 9 | 18 AWG (7x26) 6.2 Ω/Mft | .010 | Al. Foil 100% | .017 | .267 | CMR | 68 pf/ft* 122 pf/ft |
| 3283 | 12 | 18 AWG (7x26) 6.2 Ω/Mft | .010 | Al. Foil 100% | .017 | .302 | CMR | 68 pf/ft* 122 pf/ft |
| 3245 | 4 | 16 AWG (19x29) 4.2 Ω/Mft | .008 | Al. Foil 100% | .017 | .225 | CMR | 75 pf/ft* 140 pf/ft |

* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield.

| Insulation Color Code | |
|-----------------------|-----------|
| Primary Color Code | |
| 1. Black | 7. Orange |
| 2. Red | 8. Yellow |
| 3. White | 9. Purple |
| 4. Green | 10. Gray |
| 5. Brown | 11. Pink |
| 6. Blue | 12. Tan |

| Jacket Color Code |
|------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |

Notes:

- Cables are packaged in our Advantage Box. Larger AWG sized cables and Higher Paired cables may be on a reel.
- Rip Cord
- Selected Indoor/Outdoor [Aquaseal Water Resistant®](#) Versions, see Aquaseal Section, Pages 118-122
- 500ft put up lengths may be available, minimum quantities may apply.



Twisted Pair Overall Shielded / Two Conductor

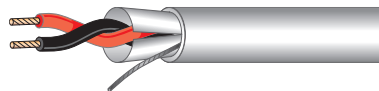
Applications:

Indoor for:

- Audio Circuits
- Low Voltage Power
- Intercom Audio
- Line Level Audio
- Division 27 41 00
- Division 27 51 00
- Division 28 05 13

Description:

- ASTM Bare Copper
- Thermoplastic Insulation
- Overall Shield 100% Coverage of Aluminum Polyester Foil with Tinned Copper Drain Wire
- Twisted Pair Construction
- Overall PVC Jacket



Rating:

- NEC Type CMR or CL2R
- (UL)-C(UL) Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|------------------------------|-------------------------|------------------|----------|--------------------------|
| 290 | 2 | 22 AWG Solid 17.5 Ω/Mft | Polypropylene .008 | Al. Foil 100% 22 Solid | PVC .017 | .120 | CMR | 55 pf/ft* 99 pf/ft** |
| 291 | 2 | 22 AWG (7x30) 17 Ω/Mft | Polypropylene .008 | Al. Foil 100% 24 Strd. | PVC .017 | .127 | CMR | 55 pf/ft* 99 pf/ft** |
| 292 | 2 | 20 AWG (7x28) 10.5 Ω/Mft | Polypropylene .008 | Al. Foil 100% 24 Strd. | PVC .017 | .140 | CMR | 60 pf/ft* 108 pf/ft** |
| 293 | 2 | 18 AWG (7x26) 6.2 Ω/Mft | Polypropylene .008 | Al. Foil 100% 24 Strd. | PVC .017 | .160 | CMR | 68 pf/ft* 122 pf/ft |
| 294 | 2 | 16 AWG (19x29) 4.1 Ω/Mft | Polypropylene .008 | Al. Foil 100% 24 Strd. | PVC .017 | .186 | CMR | 75 pf/ft* 140 pf/ft |
| 295 | 2 | 14 AWG (19x27) 2.7 Ω/Mft | Polypropylene .008 | Al. Foil 100% 24 Strd. | PVC .017 | .234 | CL3R | 76 pf/ft* 137 pf/ft |
| 296 | 2 | 12 AWG (19x25) 1.7 Ω/Mft | Polypropylene .008 | Al. Foil 100% 24 Strd. | PVC .017 | .265 | CL3R | 88 pf/ft* 158 pf/ft |

* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield.

| Insulation Color Code | |
|-------------------------|----------|
| Primary Color Code | |
| 290, 291, 292, 293, 294 | 295, 296 |
| 1. Black | 1. Black |
| 2. Red | 2. Red |

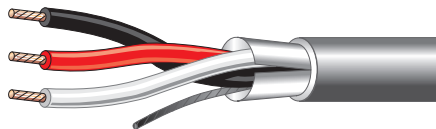
| Jacket Color Code |
|------------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |

Notes:

- Selected Plenum Versions see - Plenum Section
- Selected Indoor/Outdoor **Aquaseal Water Resistant®** Versions, see Aquaseal Section, Page 123
- Professional Grade Versions: Pages 27-30
- Halogen Free Versions: Page 126
- Cables are packaged in our Advantage Box
Larger AWG sized cables and Higher Paired cables may be on a reel
- Rip Cord
- 500ft put up lengths may be available, minimum quantities may apply.



Three Conductor / Overall Shield



Applications: Description:

Indoor for:

- Audio Circuits
- Low Voltage Power
- Intercom Audio
- Line Level Audio

- ASTM Bare Copper
- Thermoplastic Insulation 100% Coverage of Aluminum Polyester Foil with Tinned Copper Drain Wire
- Cabled Construction
- Overall PVC Jacket

Rating:

- NEC Type CMR
- (UL)-C(UL) Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------------|-----------------------------|------------------------------|-------------------------|------------------|----------|--------------------------|
| 300 | 3 | 22 AWG Solid 17.5 Ω/Mft | .008 | Al. Foil 100% 22 Solid | .017 | .130 | CMR | 55 pf/ft* 99 pf/ft** |
| 301 | 3 | 22 AWG (7x30) 17 Ω/Mft | .007 | Al. Foil 100% 24 Strd. | .017 | .138 | CMR | 55 pf/ft* 99 pf/ft** |
| 302 | 3 | 20 AWG (7x28) BC 10.1 Ω/Mft | .008 | Al. Foil 100% 24 Strd. | .017 | .152 | CMR | 60 pf/ft* 108 pf/ft** |
| 303 | 3 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | Al. Foil 100% 24 Strd. | .017 | .174 | CMR | 68 pf/ft* 122 pf/ft** |

Insulation Color Code

Primary Color Code

1. Black
2. Red
3. White

* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield.

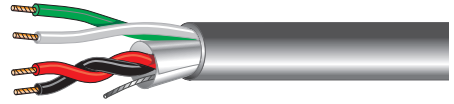
Notes:

- Selected Plenum Versions, see - Plenum Section
- Cables are packaged in our Advantage Box.
- Rip Cord
- 500ft put up lengths may be available, minimum quantities may apply.

Jacket Color Code

Stocked jacket colors vary by item.
For available jacket color, please contact our
Customer Service Department:
800-245-4964

Sound and Audio / Special Cable



Applications:

- Indoor for:
- Audio Circuits
- Low Voltage Power
- Intercom Audio

Description:

- ASTM Bare Copper
- Thermoplastic Insulation
- Unshielded / Shielded Pair 100% Coverage of Aluminum Polyester Foil with Drain Wire
- Short Overall Twist Construction
- Overall PVC Jacket

Rating:

- NEC Type CMR
- (UL)-C(UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1666

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|-------------------------------------|--------------------------------|-----------------------------|------------------------------|-------------------------|------------------|----------|--------------------------|
| 351 | 3 (2 Shld) (1 Unshld) | 22 AWG Solid 17.5 Ω/Mft | .008 | Al. Foil 100% 22 Solid | .017 | .157 | CMR | 55 pf/ft* 99 pf/ft** |
| 352 | 3 (2 Shld) (1 Unshld) | 22 AWG (7x30) 17 Ω/Mft | .007 | Al. Foil 100% 24 Strd. | .017 | .162 | CMR | 55 pf/ft* 99 pf/ft** |
| 355 | 4 (2 Shld) (2 Unshld) | 22 AWG Solid 17.5 Ω/Mft | .007 | Al. Foil 100% 22 Solid | .017 | .150 | CMR | 55 pf/ft* 99 pf/ft** |
| 356 | 4 (2 Shld) (2 Unshld) | 20 (7x28) 18 (7x26) | .008 | Al. Foil 100% 24 Strd. | .017 | .196 | CMR | 60 pf/ft* 108 pf/ft** |
| 357 | 4 (2 Shld) (2 Unshld) | 22 AWG (7x30) 17 Ω/Mft | .007 | Al. Foil 100% 24 Strd. | .017 | .162 | CMR | 55 pf/ft* 99 pf/ft** |
| 358 | 3 (2 Shld) (1 Unshld) | 20 AWG (7x28) 10.1 Ω/Mft | .008 | Al. Foil 100% 22 Strd. | .017 | .182 | CMR | 60 pf/ft* 108 pf/ft** |
| 359 | 4 (2 Shld) (2 Unshld) | 20 AWG (7x28) 10.1 Ω/Mft | .008 | Al. Foil 100% 22 Strd. | .017 | .186 | CMR | 60 pf/ft* 108 pf/ft** |
| 360 | 4 (2 Shld) (2 Unshld) | 18 AWG (7x26) 6.2 Ω/Mft | .008 | Al. Foil 100% 22 Strd. | .017 | .205 | CMR | 68 pf/ft* 122 pf/ft** |
| 369 | 6 (2 Shld) (4 Unshld) | 22 AWG Solid 17.5 Ω/Mft | .008 | Al. Foil 100% 22 Solid | .017 | .170 | CMR | 55 pf/ft* 99 pf/ft** |
| 373 | (6) 1 Shld. Pr. 2 Unshld. Pr. | 22 AWG Solid 17.5 Ω/Mft | .008 | Al. Foil 100% 22 Solid | .017 | .195 | CMR | -- |

* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield.

Notes:

- Selected Plenum Versions, see - Plenum Section
- Selected Indoor/Outdoor [Aquaseal Water Resistant](#) Versions, see Aquaseal Section, Page 117
- Cables are packaged in our Advantage Box.
- Orange Rip Cord
- 500ft put up lengths may be available, minimum quantities may apply.



| Insulation Color Code | | | |
|-----------------------|----------------------------------------|---------------------------------------|----------------------------------|
| Primary Color Code | 351, 352, 355, 356, 357, 358, 359, 360 | 369 | 373 |
| Unshielded | 1. White, 2. Green | 1. White, 2. Green, 3. Brown, 4. Blue | 1. Black/Green 2. Black/White |
| Shielded | 1. Black, 2. Red | 1. Black, 2. Red | 1. Black, 2. Red |

22 AWG Miniature Audio Cable / Overall Shield

Applications:

- Indoor for:
- Audio Circuits
 - Low Voltage Power
 - Line Level Audio
 - Division 27 41 00
 - Division 27 51 00

Description:

- ASTM Tinned Copper
- Polypropylene Insulation
- Overall Shield 100% Coverage of Aluminum Polyester Foil with Tinned Copper Drain Wire
- Twisted Pair Construction
- Overall PVC Jacket



Rating:

- NEC Type CMR
- (UL)-C(UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1666

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|------------------------------|-------------------------|------------------|----------|-------------------------|
| 450 | 2 | 22 AWG Solid 17.5 Ω/Mft | .006 | Al. Foil 100% 22 Solid | .020 | .118 | CMR | 34 pf/ft* 67 pf/ft** |
| 451 | 3 | 22 AWG Solid 17.5 Ω/Mft | .006 | Al. Foil 100% 22 Solid | .020 | .130 | CMR | 34 pf/ft* 67 pf/ft** |
| 452 | 2 | 22 AWG (7x30) 17 Ω/Mft | .008 | Al. Foil 100% 24 Strd. | .020 | .135 | CMR | 32 pf/ft* 58 pf/ft** |

Insulation Color Code

Primary Color Code

1. Black
2. Red
3. White

* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield.

Notes:

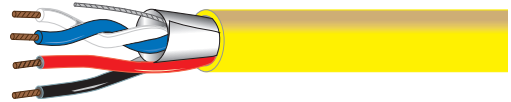
- Cables are packaged in our Advantage Box.
- Orange Rip Cord
- Professional Grade Versions, Pages 27-30

Jacket Color Code

Stocked jacket colors vary by item.
For available jacket color, please contact our
Customer Service Department:
800-245-4964

Media Control Cable

Specialized Control Systems



Applications:

- Indoor for:
- Communication Bus
- Low Voltage Power
- Media Control Circuits
- Division 27 41 00
- Division 27 51 00

Description:

- ASTM Bare Copper
- Foam Polyolefin Insulation (Data Pair), Thermoplastic (Control Pair)
- Short Overall Twist Lengths
- (Data Pair) Overall Shield 100% Coverage of Aluminum Polyester Foil with Drain Wire, (Control Pair) Unshielded
- Overall PVC Jacket

Rating:

- NEC Type CMR (77350) and CMP (D25350)
- (UL) C(UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1666 or NFPA 262 Smoke & Flame Test

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|---------------|-----------------------------|-----------------------------|-----------------------------|--------------------------------------|------------------|----------|-----------------------------|
| 77350 | 4 (2 Shld) | 22 AWG (7x30) 17Ω/M' | Polyolefin .025 | Al. Foil-100% drain wire | PVC .030 | .255 | CMR | 12.5 pf/ft* 22.5 pf/ft** |
| | (2 Unshld) | 18 AWG (7x26) 6.2Ω/M' | .018 | None | | | | |
| D25350 | 4 (2 Shld) | 22 AWG (7x30) 17Ω/M' | Foam FEP .022 | Al. Foil-100% drain wire | Flexible Polymer Alloy .015 | .206 | CMP | 12.5 pf/ft* 22.5 pf/ft** |
| | (2 Unshld) | 18 AWG (7x26) 6.2Ω/M' | Polymer Alloy .008 | None | | | | |

| Insulation Color Code | | |
|-----------------------|------------------------------------------------------|------------------------------------------------------|
| Primary Color Code | 77350 | D25350 |
| | 22 AWG Pair: Blue/White 18 AWG Control: Red/Black | 22 AWG Pair: Blue/White 18 AWG Control: Red/Black |

- * Capacitance between conductors.
- ** Capacitance between one conductor and the other connected to the shield.

Notes:

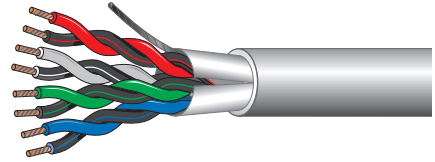
- Selected Plenum Versions, see - Plenum Section
- Cables are packaged in our Advantage Box.
- Rip Cord
- 500ft put up lengths may be available, minimum quantities may apply.

| Jacket Color Code |
|------------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |

| Cross Reference | | | |
|--------------------|------------|-----------|-----------|
| WPW Catalog Number | Crestron | Liberty | Extron |
| 77350 | CRESNET NP | LLINX-U | 22-148-03 |
| D25350 | CRESNET P | LLINX-U-P | 22-119-03 |



22 AWG Multiple Pair / Overall Shielded



Applications:

Indoor for:

- Audio Circuits
- Low Voltage Power
- Intercom Systems
- Access Control
- Division 27 41 00
- Division 27 51 00
- Division 28 05 13

Description:

- ASTM Bare Copper
- Thermoplastic Insulation
- Overall Shield 100% Coverage of Aluminum Polyester Foil with 24 AWG Strd. Tinned Copper Drain Wire
- Short Overall Twist Construction
- Overall PVC Jacket

Rating:

- NEC Type CMR
- (UL)-C(UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1666

Standard spool size, 1000ft.

| Catalog No. | No. of Pairs | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|---------------|-------------------------|------------------|----------|-----------------------|
| 3651 | 2 | 22 AWG (7x30) 17 Ω/Mft | .007 | Al. Foil 100% | .020 | .196 | CMR | 55 pf/ft* 99 pf/ft |
| 3652 | 3 | 22 AWG (7x30) 17 Ω/Mft | .007 | Al. Foil 100% | .020 | .209 | CMR | 55 pf/ft* 99 pf/ft |
| 3653 | 4 | 22 AWG (7x30) 17 Ω/Mft | .007 | Al. Foil 100% | .020 | .229 | CMR | 55 pf/ft* 99 pf/ft |
| 3654 | 6 | 22 AWG (7x30) 17 Ω/Mft | .007 | Al. Foil 100% | .020 | .288 | CMR | 55 pf/ft* 99 pf/ft |

Insulation Color Code

Pair Color Code

| |
|-----------------------------|
| Pair 1. Black/Red-Red |
| Pair 2. Black/White-White |
| Pair 3. Black/Green-Green |
| Pair 4. Black/Blue-Blue |
| Pair 5. Black/Yellow-Yellow |
| Pair 4. Black/Brown-Brown |

Jacket Color Code

Stocked jacket colors vary by item.
For available jacket color, please contact our Customer Service Department:
800-245-4964

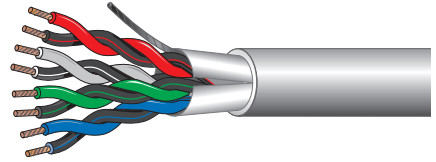
* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield.

Notes:

- Cables are packaged in our Advantage Box.
- Larger AWG sized cables and Higher Paired cables may be on a reel.
- Orange Rip Cord
- 500ft put up lengths may be available, minimum quantities may apply.

Multiple Pair 18 AWG / Overall Shielded



Applications:

- Indoor for:
- Audio Circuits
 - Low Voltage Power
 - Intercom Systems
 - Access Control
 - Division 27 41 00
 - Division 27 51 00
 - Division 28 05 13

Description:

- ASTM Bare Copper
- Thermoplastic Insulation
- Overall Shield 100% Coverage of Aluminum Polyester Foil with 24 AWG Strd. Tinned Copper Drain Wire
- Short Overall Twist Construction
- Overall PVC Jacket

Rating:

- NEC Type CMR
- (UL)-C(UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1666

Standard spool size, 1000ft.

| Catalog No. | No. of Pairs | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|---------------|-------------------------|------------------|----------|----------------------------|
| 3751 | 2 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | Al. Foil 100% | .017 | .261 | CMR | 68 pf/ft* 122 pf/ft**** |
| 3752 | 3 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | Al. Foil 100% | .017 | .281 | CMR | 68 pf/ft* 122 pf/ft** |
| 3753 | 4 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | Al. Foil 100% | .017 | .315 | CMR | 68 pf/ft* 122 pf/ft** |

Insulation Color Code

Pair Color Code

- | |
|---------------------------|
| Pair 1. Black/Red-Red |
| Pair 2. Black/White-White |
| Pair 3. Black/Green-Green |
| Pair 4. Black/Blue-Blue |

Jacket Color Code

Stocked jacket colors vary by item.
For available jacket color, please contact our Customer Service Department:
800-245-4964

* Capacitance between conductors.

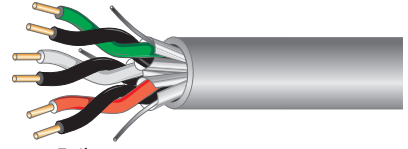
** Capacitance between one conductor and the other connected to the shield.

Notes:

- Cables are packaged in our Advantage Box.
- Rip Cord
- 500ft put up lengths may be available, minimum quantities may apply.



22 AWG Multiple Pair / Each Pair Shielded



Applications:

- Indoor for:
- Audio Circuits
 - Low Voltage Power
 - Line Level Audio
 - Audio Rack Cabling
 - Division 27 41 00
 - Division 27 51 00

Description:

- ASTM Bare Copper
- Thermoplastic Insulation
- Each Pair Shielded 100% Coverage of Aluminum Polyester Foil with 22 AWG Solid Tinned Copper Drain Wire
- Short Overall Twist Construction
- Overall PVC Jacket

Rating:

- NEC Type CM
- (UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1685

Standard spool size, 1000ft.

| Catalog No. | No. of Pairs | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|---------------|-------------------------|------------------|----------|-----------------------|
| 420 | 2 | | .008 | Al. Foil 100% | .017 | .195 | CMR | 55 pf/ft* 99 pf/ft |
| 422 | 6 | 22 AWG Solid 17.5 Ω/Mft | .008 | Al. Foil 100% | .017 | .285 | CMR | 55 pf/ft* 99 pf/ft |

Insulation Color Code

Pair Color Code

- Pair 1. Black/Red-Red
- Pair 2. Black/White-White
- Pair 3. Black/Green-Green
- Pair 4. Black/Blue-Blue
- Pair 5. Black/Yellow-Yellow
- Pair 4. Black/Brown-Brown

- * Capacitance between conductors.
- ** Capacitance between one conductor and the other connected to the shield.

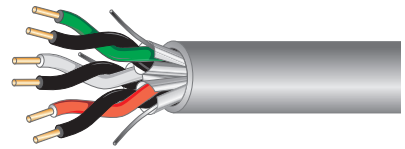
Notes:

- Selected Indoor/Outdoor Aquaseal Water Resistant* Versions
- Cables are packaged in our Advantage Box. Larger AWG sized cables and Higher Paired cables may be on a reel.
- Rip Cord

Jacket Color Code

Stocked jacket colors vary by item.
For available jacket color, please contact our Customer Service Department: 800-245-4964

18 AWG Multiple Pair / Each Pair Shielded



Applications:

- Indoor for:
- Audio Circuits
 - Low Voltage Power
 - Line Level Audio
 - Audio Rack Cabling

Description:

- ASTM Tinned Copper
- Polyolefin Insulation
- Each Pair Shielded 100% Coverage of Aluminum Polyester Foil with 24 AWG Strd. Tinned Copper Drain Wire
- Short Overall Twist Construction
- Overall PVC Jacket

Rating:

- NEC Type CMR
- (UL)-C(UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1666

Standard spool size, 1000ft.

| Catalog No. | No. of Pairs | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding | Jacket Type & Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|------------------------------------|-------------------------------|--------------------------------|------------------|----------|-------------------------|
| D440 | 2 | 18 AWG (7x26) 6.6 Ω/Mft | .006 | Each Pair Al. Foil 100% | .025 | .268 | CM | 42 pf/ft* 76 pf/ft** |
| D441 | 3 | 18 AWG (7x26) 6.6 Ω/Mft | .006 | Each Pair Al. Foil 100% | .025 | .285 | CM | 42 pf/ft* 76 pf/ft** |
| D442 | 4 | 18 AWG (7x26) 6.6 Ω/Mft | .006 | Each Pair Al. Foil 100% | .025 | .312 | CM | 42 pf/ft* 76 pf/ft** |

Insulation Color Code

Pair Color Code

- Pair 1. Black/Red-Red
- Pair 2. Black/White-White
- Pair 3. Black/Green-Green
- Pair 4. Black/Blue-Blue

Jacket Color Code

Stocked jacket colors vary by item.
For available jacket color, please contact our
Customer Service Department: 800-245-4964

Electrical Characteristics

Nom. Velocity of Propagation - 66%

- * Capacitance between conductors.
- ** Capacitance between one conductor and the other connected to the shield.

Notes:

- Selected Plenum Versions, see -Plenum Section
- Cables are packaged in our Advantage Box.
- Larger AWG sized cables and Higher Paired cables may be on a reel.
- Rip Cord



Two Conductor / Unshielded

Applications:

- Indoor for: Plenum Spaces
- Speaker Level
- Audio Circuits
- Low Voltage Power
- Background Music
- Division 27 41 00
- Division 27 51 00
- Division 28 05 13

Description:

- ASTM Bare Copper
- Polymer Alloy Insulation
- Short Overall Twist Lengths
- Overall Flex Plenum Jacket

Rating:

- NEC Type CMP or CL2P
- (UL)-C(UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test



Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R. | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|------------------------------|-----------------------------|-----------|-------------------------|------------------|----------|------------------|
| 25221B | 2 | 22 AWG (7x30) 17 Ω/Mft | .007 | None | .015 | .116 | CMP | -- |
| 25222B | 2 | 20 AWG (7x28) 10.5 Ω/Mft | .008 | None | .015 | .134 | CMP | -- |
| 25224B | 2 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | None | .015 | .154 | CMP | -- |
| 25225B | 2 | 16 AWG (19x29) 4.2 Ω/Mft | .008 | None | .015 | .176 | CMP | -- |
| 25226B | 2 | 14 AWG (19x27) 2.7 Ω/Mft | .010 | None | .015 | .218 | CL2P | -- |
| 25227B | 2 | 12 AWG (19x25) 1.7 Ω/Mft | .010 | None | .015 | .256 | CL2P | -- |

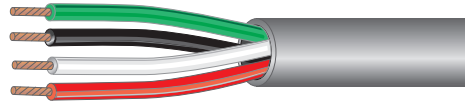
| Insulation Color Code |
|-----------------------|
| Primary Color Code |
| 1. Black |
| 2. Red |

| Jacket Color Code |
|---------------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |

Notes:

- Plenum Installation Precautions, see Technical Reference Section, Page 130
- Cables are packaged in our Advantage Box.
- Speaker Connectors Listed in Speaker Section
- 500ft put up lengths may be available, minimum quantities may apply.

Multiple Conductor / Unshielded - 22 AWG



Applications:

Indoor within ducts, plenums and other spaces used for environmental air:

- Speaker Level
- Audio Circuits
- Low Voltage Power
- Background Music
- Division 27 41 00
- Division 27 51 00
- Division 28 05 13

Description:

- ASTM Bare Copper
- Polymer Alloy Insulation
- Cabled Construction
- Overall Flex Plenum Jacket

Rating:

- NEC Type CMP
- (UL)-C(UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|-----------|-------------------------|------------------|----------|------------------|
| 25231B | 3 | 22 AWG (7x30) 17 Ω/Mft | .007 | None | .015 | .127 | CMP | -- |
| 25240B | 4 | 22 AWG Solid 17 Ω/Mft | .007 | None | .015 | .136 | CMP | -- |
| 25241B | 4 | 22 AWG (7x30) 17 Ω/Mft | .007 | None | .015 | .136 | CMP | -- |
| 25855B | 5 | 22 AWG (7x30) 17 Ω/Mft | .007 | None | .015 | .146 | CMP | -- |
| 25270B | 6 | 22 AWG (7x30) 17 Ω/Mft | .007 | None | .015 | .157 | CMP | -- |
| 25271B | 8 | 22 AWG (7x30) 17 Ω/Mft | .007 | None | .015 | .172 | CMP | -- |
| 25272B | 10 | 22 AWG (7x30) 17 Ω/Mft | .007 | None | .015 | .213 | CMP | -- |
| 25273B | 12 | 22 AWG (7x30) 17 Ω/Mft | .007 | None | .015 | .220 | CMP | -- |
| 25274B | 15 | 22 AWG (7x30) 17 Ω/Mft | .007 | None | .015 | .246 | CMP | -- |

Insulation Color Code

| Primary Color Code | | |
|--------------------|------------------|-----------------|
| 1. Black | 8. Yellow | 15. White/Green |
| 2. Red | 9. Purple | |
| 3. White | 10. Gray | |
| 4. Green | 11. Pink | |
| 5. Brown | 12. Tan | |
| 6. Blue | 13. White/Black* | |
| 7. Orange | 14. White/Red | |

Notes:

- Plenum Installation Precautions, see Technical Reference Section, Page 130
- Cables are packaged in our Advantage Box.
- 500ft put up lengths may be available, minimum quantities may apply.

Jacket Color Code

Stocked jacket colors vary by item.
For available jacket color, please contact our Customer Service Department: 800-245-4964



Multiple Conductor / Unshielded 16, 18, and 20 AWG



Applications:

Indoor within ducts, plenums and other spaces used for environmental air:

- Intercom Systems
- Security Systems
- Sound and Audio
- Background Music
- Division 27 41 00
- Division 27 51 00
- Division 28 05 13

Description:

- ASTM Bare Copper
- Polymer Alloy Insulation
- Cabled Construction
- Overall Flex Plenum Jacket

Rating:

- NEC Type CMP
- (UL) -C(UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|-----------|-------------------------|------------------|----------|------------------|
| 25232B | 3 | 20 AWG (7x28) 10.5 Ω/Mft | .008 | None | .015 | .142 | CMP | -- |
| 25242B | 4 | 20 AWG (7x28) 10.5 Ω/Mft | .008 | None | .015 | .156 | CMP | -- |
| 25234B | 3 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | None | .015 | .162 | CMP | -- |
| 25244B | 4 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | None | .015 | .180 | CMP | -- |
| 25186B | 6 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | None | .015 | .216 | CMP | -- |
| 25188B | 8 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | None | .015 | .235 | CMP | -- |
| 25235B | 3 | 16 AWG (19x29) 4.2 Ω/Mft | .008 | None | .015 | .191 | CMP | -- |
| 25245B | 4 | 16 AWG (19x29) 4.2 Ω/Mft | .008 | None | .015 | .208 | CMP | -- |

| Insulation Color Code | |
|-----------------------|-----------|
| Primary Color Code | |
| 1. Black | 5. Brown |
| 2. Red | 6. Blue |
| 3. White | 7. Orange |
| 4. Green | 8. Yellow |

| Jacket Color Code |
|------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |

Notes:

- Plenum Installation Precautions, see Technical Reference Section, Page 130
- Cables are packaged in our Advantage Box.
- 500ft put up lengths may be available, minimum quantities may apply.

Multiple Conductor / Unshielded 14 and 12 AWG



Applications:

- Indoor within ducts, plenums and other spaces used for environmental air:
- Intercom Systems
 - Security Systems
 - Sound and Audio
 - Background Music
 - Division 27 41 00
 - Division 27 51 00
 - Division 28 05 13

Description:

- ASTM Bare Copper
- Polymer Alloy Insulation
- Cabled Construction
- Overall Flex Plenum Jacket

Rating:

- NEC Type CL2P
- (UL) Listed
- Flame Rating: NFPA-262 Smoke & Flame Test

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding | Jacket Type & Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|------------------------------------|-----------|--------------------------------|------------------|----------|------------------|
| 25236B | 3 | 14 AWG (19x27) 2.7 Ω/Mft | Polymer alloy .010 | None | Flex Plenum .015 | .236 | CL2P | -- |
| 25246B | 4 | 14 AWG (19x27) 2.7 Ω/Mft | Polymer alloy .010 | None | Flex Plenum .015 | .260 | CL2P | -- |
| 25248B | 4 | 12 AWG (19x25) 1.7 Ω/Mft | Polymer alloy .010 | None | Flex Plenum .015 | .304 | CL2P | -- |

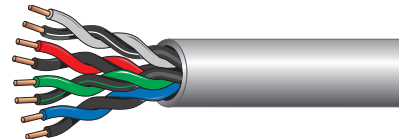
Plenum Communication & Control Cable Multiple Pair/ Unshielded 18 AWG Plenecon II[®] Extra Flexible

Description:

- ASTM Bare Copper
- Polymer Alloy Insulation
- Twisted Pair Construction
- Overall plenum PVC Jacket

Rating:

- NEC Type CMP



Standard spool size, 1000ft.

| Catalog No. | No. of Pairs | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|-----------|-------------------------|------------------|----------|------------------|
| 25751B | 2 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | None | .015 | .253 | CMP | -- |
| 25752B | 3 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | None | .015 | .275 | CMP | -- |
| 25753B | 4 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | None | .015 | .304 | CMP | -- |

Insulation Color Code

Primary Color Code

1. Black/Red-Red
2. Black/White-White
3. Black/Green-Green
4. Black/Blue-Blue

Jacket Color Code

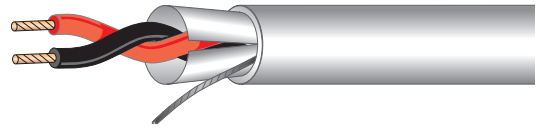
Stocked jacket colors vary by item.
For available jacket color, please contact our Customer Service Department:
800-245-4964

Notes:

- Plenum Installation Precautions, see Technical Reference Section
- Cables are packaged in our Advantage Box.



Two Conductor / Shielded



Applications:

Indoor within ducts, plenums and other spaces used for environmental air:

- Intercom Systems
- Security Systems
- Sound and Audio
- Background Music
- Division 27 41 00
- Division 27 51 00
- Division 28 05 13

Description:

- ASTM Bare Copper
- Polymer Alloy Insulation
- Short Overall Twist Lengths
- Overall Shield Coverage 100% Aluminum Polyester Foil with Tinned Copper Drain Wire
- Overall Flex Plenum Jacket

Rating:

- NEC Type CMP and CL2P
- (UL)-C(UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test

Standard spool size, 1000ft.

| Catalog No. | No. of Pairs | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|--------------------------------|-------------------------|------------------|----------|--------------------------|
| 25290B | 1 Pair | 22 AWG Solid 17.5 Ω/Mft | .008 | Al. Foil - 100% 22 Solid | .015 | .116 | CMP | 54 pf/ft* 97 pf/ft** |
| 25291B | 1 Pair | 22 AWG (7x30) 17 Ω/Mft | .007 | Al. Foil - 100% 24 Strd. | .015 | .124 | CMP | 55 pf/ft* 99 pf/ft** |
| 25292B | 1 Pair | 20 AWG (7x28) 10.5 Ω/Mft | .008 | Al. Foil - 100% 24 Strd. | .015 | .138 | CMP | 60 pf/ft* 108 pf/ft** |
| 25293B | 1 Pair | 18 AWG (7x26) 6.2 Ω/Mft | .008 | Al. Foil - 100% 24 Strd. | .015 | .156 | CMP | 68 pf/ft* 122 pf/ft** |
| 25294B | 1 Pair | 16 AWG (19x29) 4.2 Ω/Mft | .008 | Al. Foil - 100% 24 Strd. | .015 | .178 | CMP | 75 pf/ft* 140 pf/ft** |
| 25295B | 1 Pair | 14 AWG (19x27) 2.7 Ω/Mft | .010 | Al. Foil - 100% 24 Strd. | .015 | .222 | CL2P* | 76 pf/ft* 137 pf/ft** |
| 25296B | 1 Pair | 12 AWG (19x25) 1.7 Ω/Mft | .010 | Al. Foil - 100% 24 Strd. | .015 | .260 | CL2P* | 88 pf/ft* 158 pf/ft** |

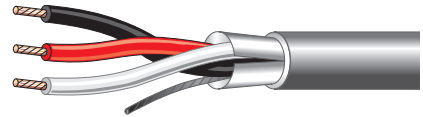
| Insulation Color Code |
|-----------------------|
| Primary Color Code |
| 1. Black |
| 2. Red |

| Jacket Color Code |
|------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |

- * Capacitance between conductors.
- ** Capacitance between one conductor and the other connected to the shield.

Notes:

- Plenum Installation Precautions, see Technical Reference Section, Page 130
- Cables are packaged in our Advantage Box.
- 500ft put up lengths may be available, minimum quantities may apply.



Multiple Conductor / Shielded 22 AWG

Applications:

- Indoor within ducts, plenums and other spaces used for environmental air:
- Intercom Systems
 - Security Systems
 - Sound and Audio
 - Background Music
 - Division 27 41 00
 - Division 27 51 00
 - Division 28 05 13

Description:

- ASTM Bare Copper
- Polymer Alloy Insulation
- Cabled Construction
- Overall Shield Coverage 100% Aluminum Polyester Foil with Tinned Copper Drain Wire
- Overall Flex Plenum Jacket

Rating:

- NEC Type CMP
- (UL)-C(UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|-----------------------------|-------------------------|------------------|----------|-------------------------|
| 25300B | 3 | 22 AWG Solid 17.5 Ω/Mft | .008 | Al. Foil - 100% 22 Solid | .015 | .122 | CMP | 54 pf/ft* 97 pf/ft** |
| 25301B | 3 | 22 AWG (7x30) 17 Ω/Mft | .007 | Al. Foil - 100% 24 Strd. | .015 | .130 | CMP | 55 pf/ft* 99 pf/ft** |
| 253241B | 4 | 22 AWG (7x30) 17Ω/Mft | .007 | Al. Foil - 100% 24 Strd. | .015 | .141 | CMP | 55 pf/ft* 99 pf/ft** |
| 253855B | 5 | 22 AWG (7x30) 17 Ω/Mft | .007 | Al. Foil - 100% 24 Strd. | .015 | .154 | CMP | 55 pf/ft* 99 pf/ft** |
| 253270B | 6 | 22 AWG (7x30) 17 Ω/Mft | .007 | Al. Foil - 100% 24 Strd. | .015 | .162 | CMP | 55 pf/ft* 99 pf/ft** |
| 253271B | 8 | 22 AWG (7x30) 17 Ω/Mft | .007 | Al. Foil - 100% 24 Strd. | .015 | .184 | CMP | 55 pf/ft* 99 pf/ft** |
| 253272B | 10 | 22 AWG (7x30) 17 Ω/Mft | .007 | Al. Foil - 100% 24 Strd. | .015 | .213 | CMP | 55 pf/ft* 99 pf/ft** |
| 253274B | 15 | 22 AWG (7x30) 17 Ω/Mft | .007 | Al. Foil - 100% 24 Strd. | .015 | .244 | CMP | 55 pf/ft* 99 pf/ft** |

| Insulation Color Code | | |
|------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|
| Primary Color Code | | |
| 1. Black | 8. Yellow | 15. White/Green |
| 2. Red | 9. Purple | |
| 3. White | 10. Gray | |
| 4. Green | 11. Pink | |
| 5. Brown | 12. Tan | |
| 6. Blue | 13. White/Black | |
| 7. Orange | 14. White/Red | |
| Jacket Color Code | | |
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 | | |

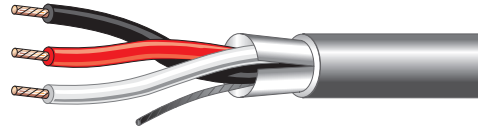
- * Capacitance between conductors.
- ** Capacitance between one conductor and the other connected to the shield.

Notes:

- Plenum Installation Precautions, see Technical Reference Section, Page 130
- Cables are packaged in our Advantage Box.
- 500ft put up lengths may be available, minimum quantities may apply.



Multiple Conductor / Shielded 18 and 20 AWG



Applications:

- Indoor within ducts, plenums and other spaces used for environmental air:
- Intercom Systems
 - Security Systems
 - Sound and Audio
 - Background Music
 - Division 27 41 00
 - Division 27 51 00
 - Division 28 05 13

Description:

- ASTM Bare Copper
- Polymer Alloy Insulation
- Cabled Construction
- Overall Shield Coverage 100% Aluminum Polyester Foil with Tinned Copper Drain Wire
- Overall Flex Plenum Jacket

Rating:

- NEC Type CMP
- (UL)-C(UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|-----------------------------|-------------------------|------------------|----------|--------------------------|
| 25302B | 3 | 20 AWG (7x28) 10.5 Ω/Mft | .008 | Al. Foil - 100% 24 Strd. | .015 | .145 | CMP | 60 pf/ft* 108 pf/ft** |
| 25303B | 3 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | Al. Foil - 100% 24 Strd. | .015 | .166 | CMP | 68 pf/ft* 122 pf/ft** |
| 253244B | 4 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | Al. Foil - 100% 24 Strd. | .015 | .182 | CMP | 68 pf/ft* 122 pf/ft** |
| 253186B | 6 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | Al. Foil - 100% 24 Strd. | .015 | .221 | CMP | 68 pf/ft* 122 pf/ft** |
| 253188B | 8 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | Al. Foil - 100% 24 Strd. | .015 | .244 | CMP | 68 pf/ft* 122 pf/ft** |

| Insulation Color Code | |
|-----------------------|-----------|
| Primary Color Code | |
| 1. Black | 5. Brown |
| 2. Red | 6. Blue |
| 3. White | 7. Orange |
| 4. Green | 8. Yellow |

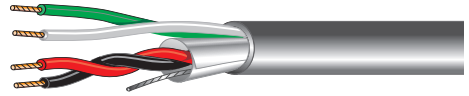
- * Capacitance between conductors.
- ** Capacitance between one conductor and the other connected to the shield.

Notes:

- Plenum Installation Precautions, see Technical Reference Section, Page 130
- Cables are packaged in our Advantage Box.
- 500ft put up lengths may be available, minimum quantities may apply.

| Jacket Color Code |
|------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |

Combination / Shielded and Unshielded



Applications:

Indoor within ducts, plenums and other spaces used for environmental air:

- Intercom Systems
- Security Systems
- Sound and Audio
- Background Music
- Division 27 41 00
- Division 27 51 00
- Division 28 05 13

Description:

- ASTM Bare Copper
- Polymer Alloy Insulation
- Cabled Construction
- Unshielded/Shielded Coverage Polyester Foil with Tinned Copper Drain Wire
- Overall Flex Plenum Jacket

Rating:

- NEC Type CMP
- (UL)-C(UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|-----------------------------|--------------------------------|-----------------------------|-----------------------------------|-------------------------|------------------|----------|--------------------------|
| 25352B | 3 (2 Shld) (1 Unshld) | 22 AWG (7x30) 17 Ω/Mft | .007 | Al. Foil - 100% 24 Strd. | .015 | .156 | CMP | 55 pf/ft* 99 pf/ft** |
| 25355B | 4 (2 Shld) (2 Unshld) | 22 AWG Solid 17.5 Ω/Mft | .008 | Al. Foil - 100% 22 Solid | .015 | .145 | CMP | 54 pf/ft* 97 pf/ft** |
| 25357B | 4 (2 Shld) (2 Unshld) | 22 AWG (7x30) 17 Ω/Mft | .007 | Al. Foil - 100% 24 Strd. | .015 | .154 | CMP | 55 pf/ft* 99 pf/ft** |
| 25358B | 3 (2 Shld) (1 Unshld) | 20 AWG (7x28) 10.1 Ω/Mft | .008 | Al. Foil - 100% Strd. Drain | .015 | .176 | CMP | 60 pf/ft* 108 pf/ft** |
| 25359B | 4 (2 Shld) (2 Unshld) | 20 AWG (7x28) 10.1 Ω/Mft | .008 | Al. Foil - 100% Strd. Drain | .015 | .180 | CMP | 60 pf/ft* 108 pf/ft** |
| 25372B | 5 (3 Shld) (2 Unshld) | 22 AWG Solid 17.5 Ω/Mft | .008 | Al. Foil - 100% 22 Solid | .015 | .172 | CMP | 54 pf/ft* 97 pf/ft** |

| Insulation Color Code | | |
|-----------------------|--------------------|----------------------------|
| Primary Color Code | All Cables | 25372B |
| Unshielded | 1. White, 2. Green | 1. Black, 2. Red, 3. White |
| Shielded | 1. Black, 2. Red | 1. Black, 2. Green |

| Jacket Color Code |
|------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |

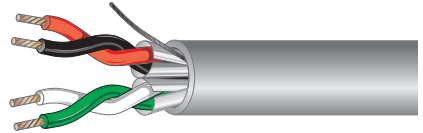
* Capacitance between conductors.
** Capacitance between one conductor and the other connected to the shield.

Notes:

- Cables are packaged in our Advantage Box.
- Plenum Installation Precautions, see Technical Reference Section, Page 130
- 500ft put up lengths may be available, minimum quantities may apply.



Multiple Pair / Individually Shielded Pairs



Applications:

- Indoor within ducts, plenums and other spaces used for environmental air:
- Intercom Systems
 - Security Systems
 - Sound and Audio
 - Background Music
 - Division 27 41 00
 - Division 27 51 00
 - Division 28 05 13

Description:

- ASTM Bare Copper
- Polymer Alloy Insulation
- Twisted Pair Construction
- Each Pair Shielded 100% Coverage of Aluminum Polyester Foil with Drain Wire
- Short Overall Twist Construction
- Overall Flex Plenum Jacket

Rating:

- NEC Type CMP
- (UL)-C(UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test

Standard spool size, 1000ft.

| Catalog No. | No. of Pairs | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|-----------------------------|-------------------------|------------------|----------|--------------------------|
| 25510B | 2 | 22 AWG (7x30) 17 Ω/Mft | .007 | Al. Foil - 100% 24 Strd. | .015 | .195 | CMP | 55 pf/ft* 99 pf/ft** |
| 25440B | 2 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | Al. Foil - 100% 24 Strd. | .015 | .253 | CMP | 68 pf/ft* 122 pf/ft** |
| 25441B | 3 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | Al. Foil - 100% 24 Strd. | .015 | .278 | CMP | 68 pf/ft* 122 pf/ft** |

| Insulation Color Code 25510B & 25440B |
|------------------------------------------|
| Primary Color Code |
| 1. Black |
| 2. Red |
| 3. White |
| 4. Green |

| Insulation Color Code 25441B |
|---------------------------------|
| Primary Color Code |
| 1. Black/Red-Red |
| 2. Black/White-White |
| 3. Black/Green-Green |

- * Capacitance between conductors.
- ** Capacitance between one conductor and the other connected to the shield.

Notes: 25510B & 25440B

- Employs individually shielded pairs with one strd. drain wire common to all shields to ensure greater shielding and lower DC resistance.

Notes: 25441B

- Employs individually shielded pairs with a strd. drain wire for each pair.

| Jacket Color Code |
|------------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |

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AUDIO

Audio Cables

| | |
|--------------------------------------------------|----|
| Broadcast Miniature Shielded | 27 |
| Broadcast Miniature Shielded Plenum | 28 |
| Professional Audio Shielded | 29 |
| Professional Audio Shielded Plenum | 30 |
| Multiple Pair Individually Shielded | 31 |
| Multiple Pair Individually Shielded Plenum | 32 |
| AES/EBU Digital Audio | 33 |
| 50 Ohm Coax | 34 |
| 3.5mm and XLR Connectors | 35 |
| Audio Assemblies | 36 |
| RF50 Ohm Connectors | 36 |

Speaker Cables

| | |
|-------------------------------------|----|
| Two Conductor Unshielded | 38 |
| Four Conductor Unshielded | 39 |
| Residential Speaker High Flex | 40 |
| Large Venue Speaker | 41 |
| Cluster Speaker | 42 |
| Speaker Connectors | 43 |
| Speaker Assemblies and Panels | 44 |



Miniature Audio / 22 AWG Shielded

Applications:

- Indoor for:
- Audio Circuits
- Low Voltage Power
- Line Level Audio
- Audio Rack Cabling
- Division 27 41 00
- Division 27 51 00

Description:

- ASTM Tinned Copper
- Polypropylene Insulation
- Overall Shield 100% Coverage of Aluminum Polyester Foil with Drain Wire
- Twisted Pair Construction
- Overall Flex PVC jacket



Rating:











- NEC Type CMR
- (UL) - C(UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1666

Standard spool size, 1000ft.

| Catalog No. | No. of Pairs | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|-----------|-------------------------|------------------|----------|------------------|
|-------------|--------------|-----------------------------|-----------------------------|-----------|-------------------------|------------------|----------|------------------|

| | | | | | | | | |
|-----|--------|---------------------------|------|------------------------------|------|------|-----|-------------------------|
| 454 | 1 pair | 22 AWG (7x30) 17 Ω/Mft | .008 | Al. Foil 100% 22 Strd. | .020 | .135 | CMR | 34 pf/ft* 67 pf/ft** |
|-----|--------|---------------------------|------|------------------------------|------|------|-----|-------------------------|

The Aluminum polyester shield is bonded to the jacket so both can be removed with automatic stripping equipment

| Jacket Color Code | | | |
|-------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|--------------|
| | Jacket Color | | Jacket Color |
|  | Brown |  | Violet |
|  | Red |  | Gray |
|  | Orange |  | White |
|  | Yellow |  | Black |
|  | Green |  | Tan |
|  | Blue |  | Pink |

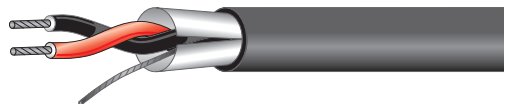
- * Capacitance between conductors.
- ** Capacitance between one conductor and the other connected to the shield.

BELDEN **WPW**
9451 454

Miniature Conformable Rack Cable / Shielded

Description:

- ASTM Overcoat Tinned Copper
- Polypropylene Insulation
- Overall Shield 100% Coverage of Aluminum Polyester Foil with Drain Wire
- Twisted Pair Construction
- Overall PVC Jacket - Black



| Catalog No. | No. of Pairs | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|-----------|-------------------------|------------------|----------|------------------|
|-------------|--------------|-----------------------------|-----------------------------|-----------|-------------------------|------------------|----------|------------------|

| | | | | | | | | |
|-----|--------|---------------------------------------|------|---------------------------------------|------|------|-----|-------------------------|
| 455 | 1 pair | Overcoat 22 AWG (7x30) 17 Ω/Mft | .008 | Al. Foil 100% 22 Strd. drain | .020 | .138 | CMR | 34 pf/ft* 67 pf/ft** |
|-----|--------|---------------------------------------|------|---------------------------------------|------|------|-----|-------------------------|

| Insulation Color Code |
|-----------------------|
| Primary Color Code |
| 1. Black |
| 2. Red |

| Jacket Color Code |
|---------------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |

- * Capacitance between conductors.
- ** Capacitance between one conductor and the other connected to the shield.



Miniature Audio / 22 AWG Shielded Plenum



Description:

- ASTM Tinned Copper
- FEP Insulation
- Overall Shield 100% Coverage of Aluminum Polyester Foil with Drain Wire
- Twisted Pair Construction
- Overall Flexible Plenum Jacket

Rating:

- NEC Type CMP
- (UL) - C(UL) Listed
- Meets 300 Volt
- Flame Rating: NFPA-262 Smoke & Flame Test

| Catalog No. | No. of Pairs | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|-----------|-------------------------|------------------|----------|------------------|
|-------------|--------------|-----------------------------|-----------------------------|-----------|-------------------------|------------------|----------|------------------|

| | | | | | | | | |
|--------|--------|------------------------------|------|------------------------------|------|------|-----|-------------------------|
| D25454 | 1 pair | 22 AWG (7x30) 17 Ω/Mft | .007 | Al. Foil 100% 22 Strd. | .018 | .130 | CMP | 35 pf/ft* 67 pf/ft** |
|--------|--------|------------------------------|------|------------------------------|------|------|-----|-------------------------|

The Aluminum polyester shield is bonded to the jacket so both can be removed with automatic stripping equipment

| Insulation Color Code |
|-----------------------|
| Primary Color Code |
| 1. Black |
| 2. Red |

Notes:

- The drain wire on these products is on the inside of the foil shield.
- Minimum order quantities may apply on select jacket colors.

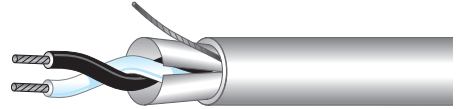
* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield.

BELDEN
9451P

WPW
D25454

Twisted Pair / Overall Shielded



Applications:

- Indoor for:
- Audio Circuits
- Low Voltage Power
- Line Level Audio
- Audio Rack Cabling
- Division 27 41 00
- Division 27 51 00

Description:

- ASTM Tinned Copper
- Polyethylene or Polypropylene Insulation
- Overall Shield 100% Coverage of Aluminum Polyester Foil with Drain Wire
- Twisted Pair Construction
- Overall PVC Jacket

Rating:

- NEC Type CM or CL2
- (UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1685

Standard spool size, 1000ft.

| Catalog No. | No. of Pairs | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|-----------------------------------------------|-------------------------|------------------|----------|-------------------------|
| 77291 | 1 Pair | 22 AWG (7x30) 17 Ω/Mft | .016 | Al. Foil 100% 22 Strd. | .025 | .175 | CM | 24 pf/ft* 47 pf/ft** |
| 77292 | 1 Pair | 20 AWG (7x28) 10.5 Ω/Mft | .016 | Al. Foil 100% 20 Strd. | .028 | .204 | CM | 27 pf/ft* 49 pf/ft** |
| 77293 | 1 Pair | 18 AWG (16x30) 6.2 Ω/Mft | .018 | 100% Al. Foil 20 Strd. | .028 | .222 | CM | 24 pf/ft* 44 pf/ft** |
| 77294 | 1 Pair | 16 AWG (19x29) 4.2 Ω/Mft | .032 | Al. Foil 100% 18 Strd. | .032 | .315 | CL2 | 23 pf/ft* 44 pf/ft** |
| 77295 | 1 Pair | 14 AWG (19x27) 2.7 Ω/Mft | .032 | Al. Foil 100% 16 Strd. | .035 | .355 | CL2 | 24 pf/ft* 47 pf/ft** |
| 77510† | 2 Pair | 22 AWG (7x30) 17 Ω/Mft | .008 | Ind. Shielded Al. Foil 100% with 1 drain wire | .020 | .189 | CM | 35 pf/ft* 62 pf/ft** |

Notes:

† Employs individually shielded pairs with one drain wire common to all shields.

* Capacitance between conductors.
** Capacitance between one conductor and the other connected to the shield.

Insulation Color Code

| Primary Color Code | 77291, 77292, 77293, 77294, 77295 | | 77510 |
|--------------------|-----------------------------------|----------------|-------|
| | 1. Black | 1. Black/Red | |
| | 2. Clear | 2. White/Green | |

Notes:

• 500ft put up lengths may be available, minimum quantities may apply.

BELDEN

- 8761
- 8762
- 8760
- 8723

WPW

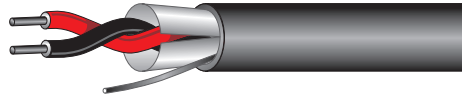
- 77291
- 77292
- 77293
- 77510

Jacket Color Code

Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964



Twisted Pair / Overall Shielded - Plenum



Applications:

- Indoor for: Plenum Spaces
- Audio Circuits
- Low Voltage Power
- Line Level Audio
- Audio Rack Cabling
- Division 27 41 00
- Division 27 51 00

Description:

- ASTM Tinned Copper
- Teflon Insulation
- Overall Shield 100% Coverage of Aluminum Polyester Foil with Drain Wire
- Twisted Pair Construction
- Flexible Plenum Jacket

Rating:

- NEC Type CMP
- (UL)-C(UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test

BROADCAST QUALITY

Standard spool size, 1000ft.

| Catalog No. | No. of Pairs. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|---------------|-----------------------------|-----------------------------|---------------------------|-------------------------|------------------|----------|-------------------------|
| D25291 | 1 Pair | 22 AWG (7x30) 17 Ω/Mft | .010 | Al. Foil 100% 24 Strd. | .017 | .134 | CMP | 35 pf/ft* 67 pf/ft** |
| D25292 | 1 Pair | 20 AWG (7x28) 10.5 Ω/Mft | .010 | Al. Foil 100% 22 Strd. | .017 | .148 | CMP | 27 pf/ft* 49 pf/ft** |
| D25293 | 1 Pair | 18 AWG (7x26) 6.6 Ω/Mft | .010 | Al. Foil 100% 22 Strd. | .017 | .168 | CMP | 51 pf/ft* 97 pf/ft** |
| D25294 | 1 Pair | 16 AWG (19x29) 4.4 Ω/Mft | .010 | Al. Foil 100% 22 Strd. | .017 | .188 | CMP | 36 pf/ft* 65 pf/ft** |

| Insulation Color Code |
|-----------------------|
| Primary Color Code |
| 1. Black |
| 2. Red |

| Jacket Color Code |
|------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |

* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield.

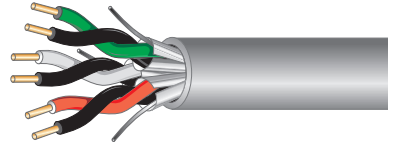
Notes:

- FEP-Fluorinated Ethylene Propylene - Teflon
- 500ft put up lengths may be available, minimum quantities may apply.

| | |
|--------|--------|
| BELDEN | WPW |
| 82761 | D25291 |
| 82760 | D25293 |

| Electrical Characteristics |
|-------------------------------|
| Nom. Vel of Propagation - 69% |
| Nom. Impedance Ω D25291 - 55Ω |
| Nom. Impedance Ω D25292 - 50Ω |
| Nom. Impedance Ω D25293 - 45Ω |
| Nom. Impedance Ω D25294 - 40Ω |

Multiple Pair 22AWG / Individually Shielded



Applications:

- Indoor for:
- Audio Circuits
- Low Voltage Power
- Line Level Audio
- Line Level Snake
- Division 27 41 00
- Division 27 51 00

Description:

- ASTM Tinned Copper
- Polyolefin Insulation
- Each Pair Shielded 100% Coverage of Aluminum Polyester Foil with 24 AWG Strd. Tinned Copper Drain Wire
- Short Overall Twist Construction
- Overall PVC Jacket

Rating:

- NEC Type CM
- (UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1685

Standard spool size, 1000ft.

| Catalog No. | No. of Pairs | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|-------------------------------|-------------------------|------------------|----------|-------------------------|
| D430 | 2 | 22 AWG (7x30) 17 Ω/Mft | .006 | Each Pair Al. Foil 100% | .025 | .235 | CM | 34 pf/ft* 67 pf/ft** |
| D431 | 3 | 22 AWG (7x30) 17 Ω/Mft | .006 | Each Pair Al. Foil 100% | .025 | .258 | CM | 34 pf/ft* 67 pf/ft** |
| D439 | 4 | 22 AWG (7x30) 17 Ω/Mft | .006 | Each Pair Al. Foil 100% | .025 | .280 | CM | 34 pf/ft* 67 pf/ft** |
| D432 | 6 | 22 AWG (7x30) 17 Ω/Mft | .006 | Each Pair Al. Foil 100% | .025 | .332 | CM | 34 pf/ft* 67 pf/ft** |
| D433 | 9 | 22 AWG (7x30) 17 Ω/Mft | .006 | Each Pair Al. Foil 100% | .034 | .390 | CM | 34 pf/ft* 67 pf/ft** |
| D434 | 12 | 22 AWG (7x30) 17 Ω/Mft | .006 | Each Pair Al. Foil 100% | .034 | .420 | CM | 34 pf/ft* 67 pf/ft** |
| D436 | 19 | 22 AWG (7x30) 17 Ω/Mft | .006 | Each Pair Al. Foil 100% | .047 | .565 | CM | 34 pf/ft* 67 pf/ft** |
| D438 | 27 | 22 AWG (7x30) 17 Ω/Mft | .006 | Each Pair Al. Foil 100% | .047 | .678 | CM | 34 pf/ft* 67 pf/ft** |

| |
|-----------------------------------------------------------------------------------------------------|
| Electrical Characteristics Nom. Vel of Propagation - 66% Nom. Impedance Ω 22 AWG (7x30) - 55Ω |
|-----------------------------------------------------------------------------------------------------|

- * Capacitance between conductors.
- ** Capacitance between one conductor and the other connected to the shield.

| Insulation Color Code | | | |
|-----------------------|------------------|------------------|------------------|
| Pair Color Code | | | |
| 1. Black-Red | 9. Red-Green | 17. Green-Brown | 25. Blue-Orange |
| 2. Black-White | 10. Red-Blue | 18. Green-Orange | 26. Brown-Yellow |
| 3. Black-Green | 11. Red-Yellow | 19. White-Blue | 27. Brown-Orange |
| 4. Black-Blue | 12. Red-Brown | 20. White-Yellow | |
| 5. Black-Yellow | 13. Red-Orange | 21. White-Brown | |
| 6. Black-Brown | 14. Green-White | 22. White-Orange | |
| 7. Black-Orange | 15. Green-Blue | 23. Blue-Yellow | |
| 8. Red-White | 16. Green-Yellow | 24. Blue-Brown | |

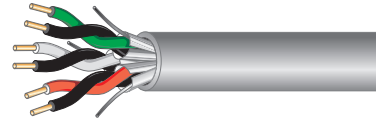
| Jacket Color Code |
|---------------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |

Notes:

- Selected Indoor/Outdoor Aqueaseal Water Resistant*
- Versions available - See Aqueaseal Section
- Orange Rip Cord



Multiple Pair / Individually Shielded - Plenum



Applications:

- Indoor for: Plenum Spaces
- Audio Circuits
- Low Voltage Power
- Line Level Audio
- Line Level Snake
- Division 27 41 00
- Division 27 51 00

Description:

- ASTM Tinned Copper
- Teflon Insulation
- Each Pair Shielded 100% Coverage of Aluminum Foil with 24 AWG Strd. Drain Wire
- Twisted Pair Construction
- Flexible Plenum Jacket

Rating:

- NEC Type CMP
- (UL)-C(UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test

Standard spool size, 1000ft.

| Catalog No. | No. of Pairs | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|-------------------------------|-------------------------|------------------|----------|-------------------------|
| D25430 | 2 | 22 AWG (7x30) 17 Ω/Mft | .010 | Each Pair Al. Foil 100% | .017 | .218 | CMP | 35 pf/ft* 67 pf/ft** |
| D25431 | 3 | 22AWG (7x30) 17 Ω/Mft | .010 | Each Pair Al. Foil 100% | .017 | .232 | CMP | 35 pf/ft* 67 pf/ft** |
| D25439 | 4 | 22 AWG (7x30) 17 Ω/Mft | .010 | Each Pair Al. Foil 100% | .017 | .256 | CMP | 35 pf/ft* 67 pf/ft** |
| D25432 | 6 | 22 AWG (7x30) 17 Ω/Mft | .010 | Each Pair Al. Foil 100% | .017 | .304 | CMP | 35 pf/ft* 67 pf/ft** |
| D25510‡ | 2 | 22 AWG (7x30) 17 Ω/Mft | .010 | Each Pair Al. Foil 100% | .017 | .214 | CMP | 25 pf/ft* 45 pf/ft** |

| Insulation Color Code | |
|-----------------------|--|
| Pair Color Code | |
| 1. Black-Red | |
| 2. Black-White | |
| 3. Black-Green | |
| 4. Black-Blue | |
| 5. Black-Yellow | |
| 6. Black-Brown | |

| Insulation Color Code | |
|-------------------------|--|
| Pairs Color Code D25510 | |
| 1. Black/Red | |
| 2. White/Green | |

| Electrical Characteristics |
|--------------------------------------|
| Nom. Vel of Propagation - 69% |
| Nom. Impedance Ω 22 AWG (7x30) - 55Ω |

- * Capacitance between conductors.
- ** Capacitance between one conductor and the other connected to the shield.

Notes:

- Employs individually shielded pairs plus overall shield with one 24 AWG drain wire common to all shields to ensure greater shielding and lower DC resistance.
- 500ft put up lengths may be available, minimum quantities may apply.

| Jacket Color Code |
|------------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |

AES / EBU Digital Audio Cable



Applications:

- Indoor for:
- Audio Circuits
- Low Voltage Power
- Line Level Audio
- Audio Rack Cabling
- Division 27 41 00
- Division 27 51 00
- Digital Audio Broadcast

Description:

- ASTM Tinned Copper
- Low Loss Foam Polyethylene Insulation
- Individually Shielded 100% Coverage of Aluminum Polyester Foil with 24 AWG Strd. Drain Wire
- DA2401 Shield is Bonded to the Jacket for Ease of Stripping
- Twisted Pair Construction
- Overall Jacket

Rating:

- NEC Type CM
- (UL) Listed
- Meets 300V Requirements as Specified in the NEC

Standard spool size, 1000ft.

Plenum - Individually Shielded Pairs + Flexible Plenum Jacket

| Catalog No. | No. of Pairs | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|---------------------------|-------------------------|------------------|----------|------------------------------|
| DA2401 | 1 | 24 AWG (7x32) 26 Ω/Mft | .020 | Overall 100% AL Foil Tape | .030 | .182 | CM | 12.5 pf/ft* 22.5 pf/ft ** |
| DA2402 | 2 | 24 AWG (7x32) 26 Ω/Mft | .020 | Overall 100% AL Foil Tape | .030 | .298 | CM | 12.5 pf/ft* 22.5 pf/ft ** |

AES / EBU Digital Audio Cable Plenum

Description:

- ASTM Tinned Copper
- Low Loss Foam FEP Insulation
- Individually Shielded 100% Coverage of Aluminum Polyester Foil with 24 AWG Strd. Drain Wire
- Twisted Pair Construction
- Overall Flexible Plenum Jacket

Plenum - Individually Shielded Pairs + Flexible Plenum Jacket

| Catalog No. | No. of Pairs | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|---------------------------|-------------------------|------------------|----------|------------------------------|
| DA252401 | 1 | 24 AWG (7x32) 26 Ω/Mft | .020 | Overall 100% AL Foil Tape | .018 | .141 | CMP | 12.5 pf/ft* 22.5 pf/ft ** |
| DA252402 | 2 | 24 AWG (7x32) 26 Ω/Mft | .020 | Overall 100% AL Foil Tape | .018 | .238 | CMP | 12.5 pf/ft* 22.5 pf/ft ** |

Insulation Color Code

Pair Color Code

- Pair 1. Black/Red
- Pair 2. Black/White

Jacket Color Code

Stocked jacket colors vary by item.
For available jacket color, please contact our Customer Service Department:
800-245-4964

Electrical Characteristics
Nom. Vel of Propagation - 78%
Nom. Impedance Ω - 110Ω

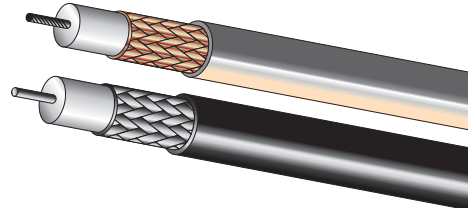
- * Capacitance between conductors.
- ** Capacitance between one conductor and the other connected to the shield.



RG58/U - RG58A/U - RG8/U - RG8x/U Type

Applications:

- RF Transmission
- Broadcast Transmission
- Wireless Communication



Standard spool size, 1000ft.

| Catalog No. | NEC Type | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding & % Coverage | Jacket Type | Nom. O.D. Inches | Nom. Capacitance | Nom. VP | Nom. Imp. Ω |
|-------------------------------------|----------|------------------------------------------|------------------------------------|--------------------------------------------------------|----------------|------------------|------------------|---------|-------------|
| 812 RG58A/U Type | CM | 20 (19x32) Tinned Copper 8.8 Ω/M' | Gas Injected PE+ .116 | 100% Bi-foil AL. +95% Tinned Cu Braid | PVC | .195 | 25 pf/ft | 78% | 50Ω |
| See connector listings Page 36 | | | | | | | | | |
| 813 RG-58/U Type | CM | 20 (Solid) Tinned Copper 10.1 Ω/M' | Gas Injected PE+ .116 | 100% Bi-foil AL. +95% Tinned Cu Braid | PVC | .195 | 26 pf/ft | 78% | 50Ω |
| See connector listings Page 36 | | | | | | | | | |
| 25812 RG-58/U Type Plenum | CMP | 20 (19x32) Tinned Copper 8.8 Ω/M' | Foam FEP .102 | 100% Bi-foil AL. +95% Tinned Cu Braid | Flex Plenum | .158 | 25 pf/ft | 82% | 50Ω |
| See connector listings Page 36 | | | | | | | | | |
| 810 RG-213/U Type | CM | 12 (7x20) Bare Copper 1.9 Ω/M' | Gas Injected PE+ .280 | 100% Bi-foil AL. +95% Tinned Cu Braid | PVC | .405 | 26 pf/ft | 80% | 50Ω |
| See connector listings Page 36 | | | | | | | | | |
| 25810 RG-213/U Type Plenum | CMP | 12 (7x20) Bare Copper 1.9 Ω/M' | Foam FEP .280 | 100% Bi-foil AL. +95% Tinned Cu Braid | Copolymer | .352 | 25 pf/ft | 80% | 50Ω |
| See connector listings Page 36 | | | | | | | | | |
| 98G8* RG-8/U Type | CM | 10AWG Solid Bare Copper .9 Ω/M' | Gas Injected PE+ .286 | 100% Bonded Bi-foil AL. + 90% Tinned Cu Braid | PVC | .405 | 24.5 pf/ft | 84% | 50Ω |
| See connector listings Page 36 | | | | | | | | | |
| 2598G8* RG-8/U Type Plenum | CMP | 10AWG Solid Bare Copper .9 Ω/M' | Foam FEP .280 | 100% Bonded Bi-foil AL. + 90% Tinned Cu Braid | Copolymer | .360 | 25 pf/ft | 80% | 50Ω |
| See connector listings Page 36 | | | | | | | | | |
| 807X RG-8X/U Type Flexible | CM | 16 (19x29) Bare Copper 4.3 Ω/M' | Gas Injected PE+ .155 | 100% Bonded Bi-foil AL. + 90% Tinned Cu Braid | PVC | .242 | 25 pf/ft | 82% | 50Ω |
| See connector listings Page 36 | | | | | | | | | |

Jacket Color Code

Stocked jacket colors vary by item.
For available jacket color, please contact our
Customer Service Department:
800-245-4964

Audio Connectors

Line Level Audio Connectors - Cable Mount XLR - 3.5mm - RCA Phono - 1/4"

| 3 PIN XLR Style Connectors- Cable Mount | |
|-----------------------------------------|-----------------------------------------------|
| Catalog No. | Description |
| CN-NC3MXB | 3 Position XLR Male Black - Gold Contact |
| CN-NC3MXBAG | 3 Position XLR Male Black - Nickel Contact |
| CN-NC3MX | 3 Position XLR Male Nickel - Nickel Contact |
| CN-NC3FXB | 3 Position XLR Female Black - Gold Contact |
| CN-NC3FXBAG | 3 Position XLR Female Black - Nickel Contact |
| CN-NC3FX | 3 Position XLR Female Nickel - Nickel Contact |
| 44-A3F | 3 Position XLR Jack |
| 44-A3M | 3 Position XLR Plug |



CN-NC3FX



44-A3M



CN-NYS231

| 3.5mm Stereo Mini Audio Connectors | |
|------------------------------------|----------------------------------|
| Catalog No. | Description |
| 19-1202 | Stereo Mini Plug |
| CN-SM3.5F | 3.5 Stereo Mini Jack |
| CN-NYS231B | 3.5mm Mini Plug - Black/Nickel |
| CN-NYS231 | 3.5mm Mini Plug Nickel/Nickel |
| CN-MX35M | 3.5mm Mini Plug - Terminal Block |
| 19-1201 | 3.5mm Mini Mono Plug |
| RCA Audio Connectors | |
| Catalog No. | Description |
| 19-1207 | RCA Plug - Red |
| 19-1268 | RCA Plug - Black |
| CN-NYS373-xx | RCA Phono - xx-BK,BL,RD,YE,GN |



CN-NYS373-GN

| 1/4" Audio Connectors | |
|-----------------------|---------------------------------------|
| Catalog No. | Description |
| CN-NP3CBAG | 1/4" Black - Silver Contact TRS |
| CN-NP3C | 1/4" Silver - Silver Contact TRS |
| CN-NP2CBAG | 1/4" Black - Silver Contact TS |
| CN-NP2C | 1/4" Silver - Silver Contact TS |
| CN-NP3XB | Thin 1/4" Black - Gold Contact TRS |
| CN-NP3XBAG | Thin 1/4" Black - Silver Contact TRS |
| CN-NP3X | Thin 1/4" Silver - Silver Contact TRS |
| CN-NP2XB | Thin 1/4" Black - Gold Contact TS |
| CN-NP2XBAG | Thin 1/4" Black - Silver Contact TS |
| CN-NP2X | Thin 1/4" Silver - Silver Contact TS |



CN-NP2XB



CN-NP3X

| Panel Mount Connectors | |
|------------------------|---------------------------------------|
| Catalog No. | Description |
| CN-35FFSP | 3.5mm Panel Mount |
| CN-MX35 | 3.5mm Terminal Block |
| CN-NC3FDLB | XLR Panel Mt. Black - Gold Contact |
| CN-NC3FDLBAG | XLR Panel Mt. Black - Nickel Contact |
| CN-NC3FDL1 | XLR Panel Mt. Nickel - Nickel Contact |
| CN-NC3FDL1B | XLR Panel Mt. Solderless Female Black |
| CN-NC3MDL1B | XLR Panel Mt. Solderless Male |
| CN-NYS230 | 1/4" TRS - Panel Mount |



CN-NC3FD-L-BAG



CN-35FFSP



CN-MX35



Audio Connectors

Line Level Audio Connectors - Panel Mount

Audio Assemblies XLR Assemblies

| XLR Analog Mic. Assemblies M to F | |
|-----------------------------------|--------------------------------------|
| Catalog No. | Description |
| CN-XPXJ-xx | Replace xx with: 3, 6, 10, 25, 50 |

| XLR Digital Mic. Assemblies M to F | |
|------------------------------------|----------------------------|
| Catalog No. | Description |
| CN-XPXJDIG-10 | 10ft. Digital Mic Assembly |



CN-XPXJ-xx

Audio Assemblies

3.5mm and RCA

| ECONOMY Stereo Mini M to M | |
|----------------------------|-------------------------------|
| Catalog No. | Description |
| CN-E3.5MM-xx | Replace xx with: 6, 12, 25 |

| CM Stereo Mini M to M | |
|-----------------------|-----------------------------------------|
| Catalog No. | Description |
| CN-4545M-xx | Replace xx with: 15,25,50,75,100,150 |

| CMP Stereo Mini M to M | |
|------------------------|-----------------------------------------|
| Catalog No. | Description |
| CN-SMTSM-xx | Replace xx with: 15,25,50,75,100,150 |

| CMP Stereo Mini M to 2 RCA | |
|----------------------------|-----------------------------------------|
| Catalog No. | Description |
| CN-SMTRCA-xx | Replace xx with: 15,25,50,75,100,150 |



CN-4545M-xx

| CMP RCA to RCA Phono | |
|----------------------|-----------------------------------------|
| Catalog No. | Description |
| CND25430RASxx | Replace xx with: 15,25,50,75,100,150 |

RF Connectors

| Straight Plug Male Connectors | | | |
|-------------------------------|-------------|---------------|---------------|
| Catalog No. | 50Ω BNC | 50Ω TNC | 50Ω "N" Type |
| 812 | CN-BM53-13 | CN-TM53-1 | CN-NM53-812 |
| 25812 | CN-BM53-25 | CN-TM53-25812 | CN-NM53-25812 |
| 813 | CN-BM53-13 | CN-TM53-1 | CN-NM53-812 |
| 810 | CN-BM53-8 | CN-TM53-1 | CN-NM53-812 |
| 25810 | CN-BM53-8 | CN-TM53-1 | CN-NM53-812 |
| 25810 | CN25810KBNC | CN25810KTNC | CN-NM53/110 |
| 98G8 | CN-BM98G8 | CN-TM98G8 | CN-NMRG8 |
| 2598G8 | CN-BM2598G8 | CN-TM98G8 | CN-NMRG8 |
| 807X | CN-BM53-8X | CN-TM53-807 | CN-NM53-8X |

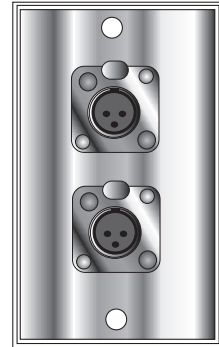


Audio Wall Plates - Metal

XLR Wall Plates

| XLR Audio Wall Plates - Stainless Steel | |
|-----------------------------------------|------------------------------------------------|
| CN-PL-103F | Single Plate - One Loaded XLR (Female) |
| CN-PL-103M | Single Plate - One Loaded XLR (Male) |
| CN-PL-103STF | Single Plate - One XLR (Female Screw Terminal) |
| CN-PL-203F | Single Plate - Two Loaded XLR (Female) |
| CN-PL-203M | Single Plate - Two Loaded XLR (Male) |
| XLR Audio Wall Plates - Aluminum | |
| CN-PLxx-103F | Single Plate - One Loaded XLR (Female) |
| CN-PLxx-103M | Single Plate - One Loaded XLR (Male) |
| CN-PLxx-103STF | Single Plate - One XLR (Female Screw Terminal) |
| CN-PLxx-203F | Single Plate - Two Loaded XLR (Female) |
| CN-PLxx-203M | Single Plate - Two Loaded XLR (Male) |

xx - Replace with:
AC - Aluminum Clear
AW - Aluminum White
AB - Aluminum Black

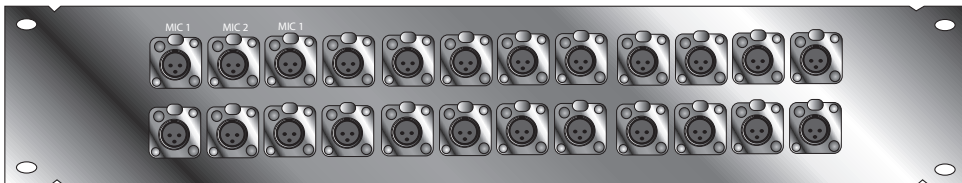


Audio Video Custom Panels & Plates

Custom Built Panels.

Please visit:

www.westpennwire.com to download PanelBuilder sE (PBsE).



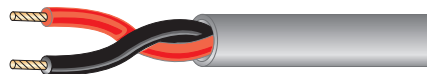
Two Conductor / Unshielded Non-Plenum

Applications:

- Indoor for:
 - Speaker Level
 - Audio Circuits
 - Low Voltage Power
 - Background Music
- Division 27 41 00
- Division 27 51 00
- Division 28 05 13

Rating:

- NEC Type CMR or CL3R
- (UL)-C(UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1666



Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|-----------|-------------------------|------------------|----------|------------------|
| 224 | 2 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | None | .017 | .156 | CMR | -- |
| 225 | 2 | 16 AWG (19x29) 4.2 Ω/Mft | .008 | None | .017 | .182 | CMR | -- |
| 226 | 2 | 14 AWG (19x27) 2.7 Ω/Mft | .010 | None | .017 | .230 | CL3R | -- |
| 227 | 2 | 12 AWG (19x25) 1.7 Ω/Mft | .010 | None | .017 | .260 | CL3R | -- |

Two Conductor / Unshielded Plenum

Rating:

- NEC Type CMP or CL3P
- (UL)-C(UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: NFPA 262

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|-----------|-------------------------|------------------|----------|------------------|
| 25224B | 2 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | None | .015 | .154 | CMP | -- |
| 25225B | 2 | 16 AWG (19x29) 4.2 Ω/Mft | .008 | None | .015 | .176 | CMP | -- |
| 25226B | 2 | 14 AWG (19x27) 2.7 Ω/Mft | .010 | None | .015 | .218 | CL3P | -- |
| 25227B | 2 | 12 AWG (19x25) 1.7 Ω/Mft | .010 | None | .015 | .256 | CL3P | -- |

| Insulation Color Code | | |
|-----------------------|-------------------------|----------|
| Primary Color Code | 220, 221, 222, 224, 225 | 226, 227 |
| | 1. Black | 1. Black |
| | 2. Red | 2. White |

| Jacket Color Code |
|---------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |

Notes:

- 500ft put up lengths may be available.
- Minimum quantities may apply.

Four Conductor / Unshielded Non-Plenum



Applications:

- Indoor for:
 - Speaker Level
 - Audio Circuits
 - Low Voltage Power
 - Background Music
- Division 27 41 00
- Division 27 51 00
- Division 28 05 13

Rating:

- NEC Type CMR or CL3R
- (UL)-C(UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1666

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|-----------|-------------------------|------------------|----------|------------------|
| 244 | 4 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | None | .017 | .183 | CMR | -- |
| 245 | 4 | 16 AWG (19x29) 4.2 Ω/Mft | .008 | None | .017 | .217 | CMR | -- |
| 246 | 4 | 14 AWG (19x27) 2.7 Ω/Mft | .010 | None | .017 | .278 | CL3R | -- |
| 248 | 4 | 12 AWG (19x25) 1.7 Ω/Mft | .010 | None | .017 | .320 | CL3R | -- |

Four Conductor / Unshielded Plenum

Rating:

- NEC Type CMP or CL3P
- (UL)-C(UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: NFPA 262

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|-----------|-------------------------|------------------|----------|------------------|
| 25244B | 4 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | None | .015 | .180 | CMP | -- |
| 25245B | 4 | 16 AWG (19x29) 4.2 Ω/Mft | .008 | None | .015 | .208 | CMP | -- |
| 25246B | 4 | 14 AWG (19x27) 2.7 Ω/Mft | .010 | None | .015 | .260 | CL3P | -- |
| 25248B | 4 | 12 AWG (19x25) 1.7 Ω/Mft | .010 | None | .015 | .304 | CL3P | -- |

| Insulation Color Code | |
|-----------------------|-------|
| Primary Color Code | |
| 1. | Black |
| 2. | Red |
| 3. | White |
| 4. | Green |

| Jacket Color Code |
|---------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |



Notes: 500ft put up lengths may be available. Minimum quantities may apply.

Two Conductor / Unshielded



More Flexible

Applications:

- Indoor for:
 - Speaker Level
 - Audio Circuits
 - Low Voltage Power
 - Background Music
- Division 27 41 00
- Division 27 51 00
- Division 28 05 13

Description:

- ASTM Bare Copper
- Thermoplastic Insulation
- Short Overall Twist Lengths
- Overall PVC Jacket

Rating:

- NEC Type CL2
- (UL) Listed
- Flame Rating: UL1685

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|---------------------------------|-----------------------------|-----------|-------------------------|------------------|----------|------------------|
| HA225 | 2 | 16 AWG (65x34) BC 4.02 Ω/Mft | .015 | None | .025 | .199 | CM | -- |
| HA226 | 2 | 14 AWG (65x32) BC 2.58 Ω/Mft | .015 | None | .025 | .250 | CL3 | -- |
| HA227 | 2 | 12 AWG (65x30) BC 1.7 Ω/Mft | .015 | None | .025 | .280 | CL3 | -- |
| HA210 | 2 | 10 AWG (65x28) BC 1.1 Ω/Mft | .012 | None | .020 | .280 | CL2 | -- |

Four Conductor / Unshielded



More Flexible

Description:

- ASTM Bare Copper
- Thermoplastic Insulation
- Cabled Construction
- Overall PVC Jacket

Rating:

- NEC Type CL2
- (UL) Listed
- Flame Rating: UL1685

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Type & Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|---------------------------------|-----------------------------|-----------|--------------------------------|------------------|----------|------------------|
| HA245 | 4 | 16 AWG (65x34) BC 4.02 Ω/Mft | .015 | None | .025 | .242 | CM | -- |
| HA246 | 4 | 14 AWG (65x32) BC 2.58 Ω/Mft | .015 | None | .025 | .307 | CL3 | -- |
| HA248 | 4 | 12 AWG (65x30) BC 1.7 Ω/Mft | .015 | None | .025 | .348 | CL3 | -- |

| Insulation Color Code | |
|-----------------------|-------|
| Primary Color Code | |
| 1. | Black |
| 2. | Red |
| 3. | White |
| 4. | Green |

| Jacket Color Code |
|---------------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |

Two Conductor / Unshielded - 8 and 10 AWG



Applications:

- Indoor for:
- Speaker Level
 - Audio Circuits
 - Low Voltage Power
 - Background Music
 - Division 27 41 00
 - Division 27 51 00
 - Division 28 05 13

Description:

- ASTM Bare Copper
- Thermoplastic Insulation with Nylon
- Twisted Pair Construction
- Overall PVC Sunlight Resistant Jacket

Rating:

- NEC Type TC
- (UL) Listed
- Meets 600 Volt - Class 1
- Approved for Direct Burial and Outdoor Use

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|--------------------------------|------------------------------------|-----------|-------------------------|------------------|------------------|------------------|
| C210 | 2 | 10 AWG (65x28) 1.10 Ω/Mft | PVC .020 Nylon .005 | None | .047 | .357 | Tray Cable TC | -- |
| HA210 | 2 | 10 AWG (65x28) BC 1.1 Ω/Mft | Thermo-plastic .012 | None | .020 | .280 | CL2 | -- |
| C208 | 2 | 8 AWG (65x26) .70Ω/Mft | PVC .032 Nylon .006 | None | .062 | .498 | Tray Cable TC | -- |

| Insulation Color Code |
|-----------------------|
| Primary Color Code |
| 1. Black |
| 2. White |

Applications:

- Indoor for:
- Speaker Level
 - Audio Circuits
 - Low Voltage Power
 - Background Music
 - Division 27 41 00
 - Division 27 51 00
 - Division 28 05 13

Description:

- ASTM Bare Copper
- (HA210), - Thermoplastic, (25210) - Polymer Alloy
- Twisted Pair Construction
- Overall Jacket

Rating:

- HA210 - NEC Type CL2
- 25210 - NEC Type CL2P
- (UL) Listed

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|------------------------------|-----------------------------|-----------|-------------------------|------------------|----------|------------------|
| 25210 | 2 | 10 AWG (65x28) 1.10 Ω/Mft | .012 | None | .015 | .275 | CL2P | -- |

| Insulation Color Code |
|-----------------------|
| Primary Color Code |
| 1. Black |
| 2. White |



Cluster Speaker Cable / Twisted Pair Unjacketed



Applications:

- Indoor for:
- Cluster Speaker Cable
 - Power-Limited Circuit Applications
 - Sound and Audio
 - Background Music

Description:

- ASTM Bare Copper
- Thermoplastic Insulation with Nylon
- Short Overall Twist Construction
- Unjacketed

Rating:

- NEC Type CL2
- (UL) Listed
- Flame Rating: UL1685

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding | Jacket Type & Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|------------------------------------|-----------|--------------------------------|------------------|----------|------------------|
| C205 | 1 | 16 AWG (19x29) 4.2 Ω/Mft | PVC .015 Nylon .005 | None | None | .194 | CL2 | -- |
| C206 | 1 | 14 AWG (41x30) 2.7 Ω/Mft | PVC .015 Nylon .005 | None | None | .222 | CL2 | -- |
| C207 | 1 | 12 AWG (65x30) 1.7 Ω/Mft | PVC .015 Nylon .005 | None | None | .260 | CL2 | -- |

| Insulation Color Code |
|-----------------------|
| Primary Color Code |
| 1. Black |
| 2. White |

Speaker Level Audio Connectors Cable Mount

Banana and Binding Post Connectors

| Catalog No. | Description |
|-------------|------------------------------|
| 19-1239 | Banana Red |
| 19-1240 | Banana Black |
| CN-MDP8 | Banana Plug (8 AWG) Double |
| CN-BPX-24B | Binding Post with Red, Black |



19-1239

Speakon Cable Mt. Female SPX

| Catalog No. | Description |
|-------------|--------------------|
| CN-NL4FX | 4 Pole, SPX Gray |
| CN-NL4FX2 | 4 Pole, SPX Red |
| CN-NL4FX4 | 4 Pole, SPX Yellow |
| CN-NL4FX5 | 4 Pole, SPX Green |
| CN-NL4FX9 | 4 Pole, SPX White |



CN-NL4FC



CN-NL4FX5

Speakon Audio Adapter

| Catalog No. | Description |
|-------------|-----------------------------|
| CN-NL4MMX | 4 Pole Male to Male Adapter |



CN-NL4MMX

Speakon Cable Mt. Female Standard

| Catalog No. | Description |
|-------------|--------------------------|
| CN-NL4FC | NEUTRIK 4 Pole, Standard |

Speaker Level Audio Connectors Panel Mount

Panel Mount Connectors

| Catalog No. | Description |
|-------------|--------------------------------------------------|
| CN-NL4MPST | Speakon Panel Mt. 4 Pole - D-size Screw terminal |
| CN-NL4MP | NEUTRIK Speakon Panel Mt. 4 Pole - Solder |



CN-NL4MPST



Speaker Level Audio Assemblies

Speakon to Speakon Assemblies

| Catalog No. | Description |
|-------------|----------------------------------------|
| CN-SS16-xx | 16 AWG Replace xx with: 6,10,25,50 ft. |
| CN-SS14-xx | 14 AWG Replace xx with: 6,10,25,50 ft. |
| CN-SS12-xx | 12 AWG Replace xx with: 6,10,25,50 ft. |



CN-SS16-xx

Speakon to Banana Plug Assemblies

| Catalog No. | Description |
|-------------|----------------------------------------|
| CN-SB16-xx | 16 AWG Replace xx with: 6,10,25,50 ft. |
| CN-SB14-xx | 14 AWG Replace xx with: 6,10,25,50 ft. |
| CN-SB12-xx | 12 AWG Replace xx with: 6,10,25,50 ft. |

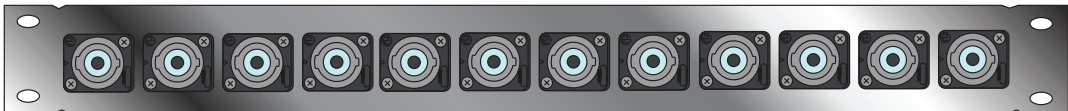


CN-SB16-xx

Speaker Panels - Metal Black 4 Pole Speakon 19" Panels

1 RU - 4 Pole Rack Panels - 12 or 16 Speakon

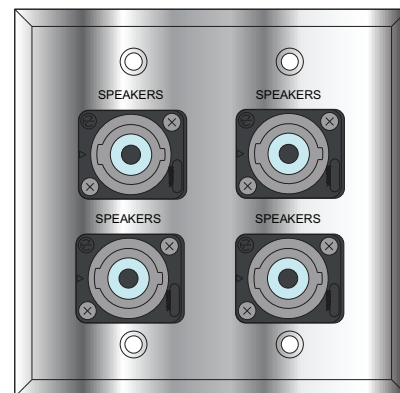
| | |
|---------------|----------------------------------------|
| CN-1RUSPK12TB | 1 RU - 12 Speakon Terminal Block Panel |
| CN-1RUSPK16TB | 1 RU - 16 Speakon Terminal Block Panel |
| CN-1RUSPK12 | 1 RU - 12 Speakon Solder Panel |
| CN-1RUSPK16 | 1 RU - 16 Speakon Solder Panel |



Speaker Level Wall Plates

Speakon Audio Wall Plates

| | |
|------------|----------------------------------------------|
| CN-SS1GSPK | Single Plate - Two 4 Pin Speakon - Stainless |
| CN-SS2GSPK | Dual Plate - Four 4 Pin Speakon - Stainless |





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| | |
|-------------------------------------|-------|
| Category 7 Cable & Connectors | 45 |
| Category 6A Cables..... | 46 |
| Category 6A Accessories | 47 |
| Category 6 Cables | 48 |
| Category 6 Accessories | 49-50 |
| Category 5E Cables | 51 |
| Category 5E Accessories..... | 51-52 |
| High Pair Count Cat 5E Cables..... | 53 |

Networking Cables - Serial Data

| | |
|---------------------------------------------|----|
| Multiple Pair Overall Shielded | 54 |
| Multiple Pair Overall Shielded Plenum..... | 55 |
| Multiple Pair - Individually Shielded | 56 |
| RS-485 - DMX Cables..... | 57 |

Fiber Optics

| | |
|--------------------------------------------------|----|
| Indoor / Outdoor OFNP Fiber Cables | 58 |
| Digital Media Video OM3 Fiber Cables..... | 59 |
| Indoor / Outdoor Armored OFNP Fiber Cables | 60 |
| Fiber Optic Assemblies and Pigtails..... | 61 |
| Pre-Terminated Long Length Assemblies | 62 |
| Fiber Optic Installation Kit & Connectors..... | 63 |
| Fiber Optic Splice Accessories..... | 64 |
| Rack & Panel Mount Panels..... | 65 |
| Fiber Optic Adapter Plates | 65 |



4 Pair 22 AWG S/FTP Plenum

Applications:

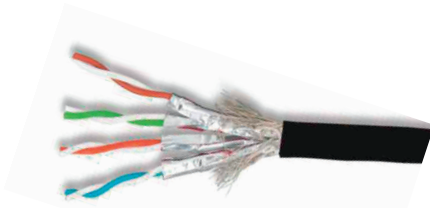
- Indoor for:
- 10G BASET Ethernet
- Horizontal LAN Cabling
- Digital Integration 4K AV
- AV Digital Video

Description:

- ASTM Solid Bare Copper
- Plenum Versions
- Multiple Pair Shielded F/STP Twisted Pair Construction
- Overall Jacket

Rating:

- NEC Type CMP
- (UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1666 and NFPA262 Smoke & Flame Test



Category 7 F/STP - Test to 600Mhz - 10G

Standard spool size, 1000ft.

| Catalog No. | No. of Pairs | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding | Jacket Type & Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance & Impedance |
|-------------|--------------|-----------------------------|------------------------------------|-----------|--------------------------------|------------------|----------|--------------------------------------------|
| 254247F | 4 Pair | 22 AWG Solid 24 Ω/Mft | FEP | S/FTP | Plenum Thermo- Plastic | .305 | CMP | Nom. Cap. 14 pf/ft* Nom. Imp 100Ω |

Insulation Color Code

| Pair No. | Pair Color Code | |
|----------|-----------------|--------------|
| 1 | White/Blue | Blue-White |
| 2 | White/Orange | Orange-White |
| 3 | White/Green | Green-White |
| 4 | White/Brown | Brown-White |

Jacket Color Code

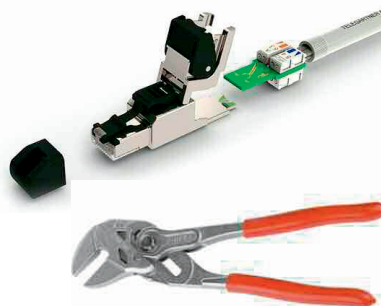
Stocked jacket colors vary by item.
For available jacket color, please contact our
Customer Service Department:
800-245-4964

Modular Plugs

Category 6A and Category 7 Shielded

CATEGORY 7 S/FTP Modular Plug

| Catalog No. | Description |
|----------------|---------------------------------|
| CN-MFP8 | Cat 7 S/FTP Modular Plug 10G |
| TL-CAT6A-CRIMP | Parallel Crimp Tool for CN-MFP8 |



RJ45 Jacks

Category 6A Shielded and Category 7

CATEGORY 6A/7 Shielded RJ45 Jacks

| Catalog No. | Description |
|---------------|------------------------------------------------------|
| RJ456AS-C6A | RJ45 Cat6A F/UTP - 10G West Penn Wire Branded |
| KJS458MT-C6AC | RJ45 Cat6A F/UTP - 10G - Metal MT Style Punchdown |
| KJMT-8600 | MT Series 4 Pair Punchdown Tool |



4 Pair 23 AWG F/UTP and UTP



Applications:

- Indoor for:
- 10G BASET Ethernet
- Horizontal LAN Cabling
- Digital Integration 4K AV
- AV Digital Video

Description:

- ASTM Solid Bare Copper
- Non-Plenum & Plenum Versions
- Multiple Pair Shielded F/UTP Twisted Pair Construction
- Overall Jacket

Rating:

- NEC Type CMP
- (UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1666 and NFPA262
- Smoke & Flame Test



Category 6A F/UTP - Test to 750Mhz - 10G

Standard spool size, 1000ft.

| Catalog No. | No. of Pairs | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding | Jacket Type & Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance & Impedance |
|-------------|--------------|-----------------------------|------------------------------------|-----------|--------------------------------|------------------|----------|--------------------------------------------|
| 4246AF | 4 Pair | 23 AWG Solid 24 Ω/Mft | Thermo-Plastic | F/UTP | PVC | .303 | CMR | Nom. Cap. 14 pf/ft* Nom. Imp 100Ω |
| 254246AF | 4 Pair | 23 AWG Solid 24 Ω/Mft | FEP | F/UTP | Plenum Thermo-Plastic | .305 | CMP | Nom. Cap. 14 pf/ft* Nom. Imp 100Ω |

Category 6A UTP - Test to 750Mhz - 10G

Applications:

- Indoor for:
- 10G BASET Ethernet
- Horizontal LAN Cabling
- IPBaseT 4K AV Distribution

Description:

- ASTM Solid Bare Copper
- Non-Plenum & Plenum Versions
- Multiple Pair Shielded UTP Twisted Pair Construction
- Overall Jacket



| Catalog No. | No. of Pairs | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding | Jacket Type & Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance & Impedance |
|-------------|--------------|-----------------------------|------------------------------------|-----------|--------------------------------|------------------|----------|--------------------------------------------|
| 4246A | 4 Pair | 23 AWG Solid 22 Ω/Mft | Thermo-Plastic | UTP | PVC | .307 | CMR | Nom. Cap. 13 pf/ft* Nom. Imp 100Ω |
| 254246A | 4 Pair | 23 AWG Solid 22 Ω/Mft | FEP | UTP | Plenum Thermo-Plastic | .305 | CMP | Nom. Cap. 13 pf/ft* Nom. Imp 100Ω |

Insulation Color Code

| Pair No. | Pair Color Code | |
|----------|-----------------|--------------|
| 1 | White/Blue | Blue-White |
| 2 | White/Orange | Orange-White |
| 3 | White/Green | Green-White |
| 4 | White/Brown | Brown-White |

Jacket Color Code

Stocked jacket colors vary by item.
For available jacket color, please contact our
Customer Service Department:
800-245-4964

| CATEGORY 6 & 6A F/UTP Modular Plug | |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Catalog No. | Description |
| 106190 | Cat6A Modular Plug 10G with Ext. Ground - BAG 100 |
| 106192 | Cat6A Modular Plug 10G with Ext. Ground - BAG 50 |
| 90170 | Cat6A 10G Termination Kit: 106190 + 12515C (Crimp Tool) +15010C (Strip Tool) + 12360C (Ext. Ground Crimp Tool) |
| 90170-BI | Cat6A 10G Termination Kit: 106190 + 12515C (Crimp Tool) +15010C (Strip Tool) + 12360C (Ext. Ground Crimp Tool)+BOOTS |
| CATEGORY 6A UTP Modular Plug | |
| CN-CAPFMUL-S1 | Cat6A UTP Plug Modular Plug |
| TL-CAT6A-CRIMP | Parallel Crimp Tool for CN-CAPFMUL-S1 |
| CATEGORY 6A F/UTP Modular Plug | |
| CN-MFP8 | Cat6A F/UTP Plug Modular Plug |

| CATEGORY 6A F/UTP Jacks | |
|-------------------------|----------------------------------------------------------------------------|
| Catalog No. | Description |
| RJ456AS-C6A | RJ45 Cat6A F/UTP - 10G - West Penn Wire Branded |
| KJS458MT-C6AC | RJ45 Cat6A F/UTP - 10G - Metal MT Style Punchdown |
| CATEGORY 6A UTP Jacks | |
| RJ456AU-C6A-cc | West Penn Wire Branded RJ45 Cat6A UTP RJ45 Jack WH,BK,BL,GY,GN,OR,RD,YE |
| KJ458MT-C6A-cc | RJ45 Cat6A UTP RJ45 Jack WH,BK,BL,GY,GN,OR,RD,YE |
| KJMT-8600 | MT Series 4 Pair Punchdown Tool |
| KJWP-MTOOL | West Penn Wire 4 Pair Punchdown Tool |

| CAT6A UTP ASSEMBLIES - SNAG-PROOF | | |
|-----------------------------------|--------------------------------------------------|-------------------------------------|
| Catalog No. | Jacket Colors | Length |
| C6A-CA1-cc-xx | Replace cc: BK, BU, GY, RD, GN, WH, YE, OR | Replace xx: 3,7,10,15,20,25 feet |

| CAT6A F/UTP ASSEMBLIES - SNAG-PROOF | | |
|-------------------------------------|-------------------|-------------------------------------|
| Catalog No. | Jacket Colors | Length |
| C6AS-CA1-GY-xx | Replace cc: GY | Replace xx: 3,7,10,15,20,25 feet |

| CATEGORY 6A UTP MD SERIES PATCH PANELS | |
|----------------------------------------|-----------------------------------------------------|
| Catalog No. | Description |
| 24PP6A-L | 24 PORT CAT 6A UTP PATCH PANEL 1.75 - 1RU West Penn |
| 48PP6A-L | 24 PORT CAT 6A UTP PATCH PANEL 1.75 - 1RU West Penn |
| 24458MD-C6A | 24 PORT CAT 6A UTP PATCH PANEL 1.75 - 1RU |
| 48458MD-C6A | 48 PORT CAT 6A UTP PATCH PANEL 3.50 - 2RU |
| 48458HD-C6A | 48 PORT CAT 6A UTP PATCH PANEL 1.75 - 1RU |
| CATEGORY 6A UTP ANGLED PATCH PANELS | |
| 24458-C6A | 24 PORT CAT 6A UTP PATCH PANEL MT SERIES |
| 48458-C6A | 48 PORT CAT 6A UTP PATCH PANEL MT SERIES |
| CATEGORY 6A UTP ANGLED PATCH PANELS | |
| 24458A-C6A | 24 PORT CAT6A UTP ANGLED 1.75" - 1RU |
| 48458A-C6A | 48 PORT CAT6A UTP ANGLED 3.50" - 2RU |
| CATEGORY 6A F/UTP PATCH PANELS | |
| 24PP6AS-L | 24 PORT CAT6A F/UTP 10G - 1.75" - 1RU - West Penn |
| 48PP6AS-L | 24 PORT CAT6A F/UTP 10G - 1.75" - 1RU - West Penn |
| 24458S-C6A | 24 PORT CAT6A F/UTP 10G - 1.75" - 1RU |
| 48458S-C6A | 48 PORT CAT6A F/UTP 10G - 3.50" - 2RU |

Modular Plugs

Category 6A



CN-CAPFMUL-S1



CN-MFP8

RJ45 Jacks

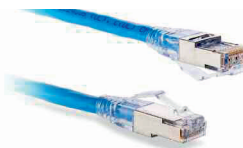
Category 6A



KJS458MT-C6AC

Assemblies

Category 6A

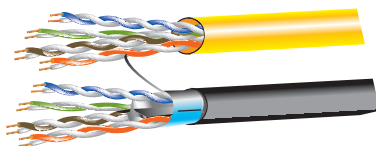


| CAT6A F/UTP ASSEMBLIES - SNAG-PROOF | | |
|-------------------------------------|--------------------------------------------------|-------------------------------------|
| Catalog No. | Jacket Colors | Length |
| C6AS-314cc-xxFB | Replace cc: BK, BU, GY, RD, GN, WH, YE, OR | Replace xx: 3,7,10,15,20,25 feet |

Patch Panels

Category 6A





4 Pair 23 AWG UTP and F/UTP

Applications:

- Indoor for:
- 1G BASET Ethernet
- Horizontal LAN Cabling
- Voice Backbone Cabling
- Digital Integration
- AV Digital Video

Description:

- ASTM Solid Bare Copper
- Plenum and Non-Plenum Versions
- Multiple Pair Shielded F/UTP Twisted Pair Construction
- Overall Jacket



Rating:

- NEC Type CM and CMP
- (UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL 1666 and NFPA262 Smoke & Flame Test
- TIA/EIA 568-B.2

Category 6 F/UTP - Test to 550Mhz

Standard spool size, 1000ft.

| Catalog No. | No. of Pairs | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding | Jacket Type & Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance & Impedance |
|-------------|--------------|-----------------------------|------------------------------------|-----------|--------------------------------|------------------|----------|--------------------------------------------|
| 4246F | 4 Pair | 23 AWG Solid 24 Ω/Mft | Thermo-Plastic | F/UTP | PVC | .290 | CMR | Nom. Cap. 14 pf/ft* Nom. Imp 100Ω |
| 254246F | 4 Pair | 23 AWG Solid 24 Ω/Mft | FEP | F/UTP | Plenum Thermo-Plastic | .280 | CMP | Nom. Cap. 14 pf/ft* Nom. Imp 100Ω |

Category 6 UTP Test to 550Mhz

Description:

- ASTM Solid Bare Copper
- Plenum and Non-Plenum Versions
- Multiple Pair Unshielded Twisted Pair Construction
- Overall Jacket

Rating:

- NEC Type CM and CMP
- (UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1666 and NFPA262 Smoke & Flame Test
- TIA/EIA 568-B.2

| Catalog No. | No. of Pairs | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding | Jacket Type & Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance & Impedance |
|-----------------------|--------------|-----------------------------|------------------------------------|--------------------------------|--------------------------------|------------------|----------|--------------------------------------------|
| 4246EZ | 4 Pair | 23 AWG Solid 24 Ω/Mft | Polyolefin | None UTP | PVC | .220 | CMR | Nom. Cap. 14 pf/ft* Nom. Imp 100Ω |
| 254246EZ | 4 Pair | 23 AWG Solid 24 Ω/Mft | Flame Retardant Polyolefin/FEP | None UTP | Plenum Thermo-Plastic | .225 | CMP | Nom. Cap. 14 pf/ft* Nom. Imp 100Ω |
| 4246OSP Outdoor | 4 Pair | 23 AWG Solid 24 Ω/Mft | Thermo-Plastic Polyolefin | None UTP Gel Water-Blocked | UV Resistant PE | .266 | - | Nom. Cap. 14 pf/ft* Nom. Imp 100Ω |
| 4246IO Indoor/Outdoor | 4 Pair | 23 AWG Solid 24 Ω/Mft | Thermo-Plastic Polyolefin | None UTP- Gel Water-Blocked | UV Resistant Polyolefin .040" | .271 | CM | Nom. Cap. 14 pf/ft* Nom. Imp 100Ω |

Insulation Color Code

| Pair No. | Pair Color Code | |
|----------|-----------------|--------------|
| 1 | White/Blue | Blue-White |
| 2 | White/Orange | Orange-White |
| 3 | White/Green | Green-White |
| 4 | White/Brown | Brown-White |

Jacket Color Code

Stocked jacket colors vary by item.
For available jacket color, please contact our
Customer Service Department:
800-245-4964

Modular Plugs

Category 6

| CATEGORY 6 & 6A F/UTP Modular Plug | |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Catalog No. | Description |
| 106190 | Cat6A Modular Plug 10G with Ext. Ground - BAG 100 |
| 106192 | Cat6A Modular Plug 10G with Ext. Ground - BAG 50 |
| 90170 | Cat6A 10G Termination Kit: 106190 + 12515C (Crimp Tool) +15010C (Strip Tool) + 12360C (Ext. Ground Crimp Tool) |
| 90170-BI | Cat6A 10G Termination Kit: 106190 + 12515C (Crimp Tool) +15010C (Strip Tool) + 12360C (Ext. Ground Crimp Tool)+BOOTS |
| CATEGORY 6 UTP Modular Plug | |
| 32-EXEZ44-xx | Cat 5E EZ EX Series Cat 5e/6 Modular Plug - xx : 50 or 500 |
| 32-6EZP | Cat6 UTP EZ Plug Modular Plug |
| HJ-326198UL | Cat6 UTP Modular Plug with load Bar |
| CN-CAT61PC-xx | Cat6 UTP Modular Plug 1 piece xx: Replace with 01 - pack of 100, 1K - pack of 1000 |
| CABLE/CONNECTOR BOOTS | |
| 32-1900-xx | CAT6 UTP BOOTS - xx: WH,BK, BU, RD, GY, OR, YE, GN |
| CN-B0051 | CAT 6 F/UTP BLACK BOOTS |
| CN-B0042 | CAT 6 F/UTP BLUE BOOTS |



CN-B0051



32-6EZP

Plug Installation Tools

Category 6A and Category 6

| INSTALLATION TOOLS | |
|--------------------|--------------------------------------------------------|
| Catalog No. | Description |
| TL-EXOCRIMP | Modular Crimp Tool - EX Series Modular Plugs |
| TL-EZRJ45PROCT | Modular Crimp Tool - EZ Plug Pro Series |
| 12516C | Dual Crimp Tool - Ext. Ground Crimp and IDC Crimp |
| 12515C | Crimp Tool for Cat6A connector 106190 |
| 12360C | External Ground Crimp Tool - for 106190 & CN-111590H34 |
| 15010C | Strip Tool for Cat6 and Cat6 A Cables |
| TL-CATWIREST | Cat Cable Stripping and Pair Separation Tool |



TL-EZRJ45PROCT



TL-CATWIREST

RJ45 Jacks

Category 6A and Category 6

| CATEGORY 6A F/UTP RJ45 Jacks | |
|-------------------------------|-------------------------------------------------------------------|
| Catalog No. | Description |
| RJ456S-C6C | RJ45 Cat6 F/UTP - Metal - West Penn Wire Branded |
| KJS458TL-C6C | RJ45 Cat6 F/UTP - Metal - Tool less |
| KJS458MT-C6C | RJ45 Cat6 F/UTP - Metal - MT Series |
| CATEGORY 6 UTP RJ45 Jacks | |
| RJ456U-C6C-cc | West Penn Wire Cat6 Jack - cc: IV, WH, BK, BL, GY, GN, OR, RD, YE |
| KJ458MT-C6C-cc | Cat6 Jack - cc: IV, WH, BK, BL, GY, GN, OR, RD, YE |
| CATEGORY 6 Feed Thru Adapters | |
| KRJ45/6S | Cat 6 Feed Thru Adapter Panel Mount |
| KRJ45/6S-SH | Cat 6 F/UTP Feed Thru Adapter Panel Mount |



12515C



RJ456U-C6C-WH



Patch Cables

Category 6



CAT6 F/UTP ASSEMBLIES - West Penn

| Catalog No. | Jacket Colors | Length |
|---------------|---------------------------|---------------------------------------|
| C6S-CA1-cc-xx | Replace cc: BK, GY, WH | Replace xx: 3,5,7,10,14,20,25 feet |

CAT6 F/UTP ASSEMBLIES - SNAG-PROOF

| Catalog No. | Jacket Colors | Length |
|-----------------|--------------------------|-------------------------------------|
| C6CS-314GY-xxFB | Replace cc: Only Gray | Replace xx: 3,7,10,15,20,25 feet |

CAT6 UTP ASSEMBLIES - West Penn

| Catalog No. | Jacket Colors | Length |
|--------------|--------------------------------------------------|---------------------------------------|
| C6-CA1-cc-xx | Replace cc: BK, BU, GY, RD, GN, WH, YE, OR | Replace xx: 3,5,7,10,15,20,25 feet |

CAT6 UTP ASSEMBLIES - Channel Level

| Catalog No. | Jacket Colors | Length |
|---------------|--------------------------------------------------|---------------------------------------------|
| C6-115cc-xxFB | Replace cc: BK, BU, GY, RD, GN, WH, YE, OR | Replace xx: 1,3,7,10,15,20,25,50 feet |

Patch Panels

Category 6

CATEGORY 6 UTP MD SERIES PATCH PANELS

| Catalog No. | Description |
|-------------|-------------------------------------------------------|
| 24PP6C-L | 24 PORT CAT 6 UTP PATCH PANEL 1.75" - 1RU - West Penn |
| 48PP6C-L | 48 PORT CAT 6 UTP PATCH PANEL 3.50" - 2RU - West Penn |
| 12458MD-C6C | 12 PORT CAT 6 UTP PATCH PANEL 1.75" - 1RU |
| 24458MD-C6C | 24 PORT CAT 6 UTP PATCH PANEL 1.75" - 1RU |
| 48458MD-C6C | 48 PORT CAT 6 UTP PATCH PANEL 3.50" - 2RU |
| 48458HD-C6C | 48 PORT CAT 6 UTP PATCH PANEL 1.75" - 1RU |

MD SERIES



CATEGORY 6 UTP MT SERIES PATCH PANELS

| | |
|-----------|----------------------------|
| 24458-C6C | 24 PORT CAT6 UTP MT SERIES |
| 48458-C6C | 48 PORT CAT6 UTP MT SERIES |

MT SERIES



CATEGORY 6 UTP EC SERIES PATCH PANELS

| | |
|------------|----------------------------|
| 24458EC-C6 | 24 PORT CAT6 UTP EC SERIES |
| 48458EC-C6 | 48 PORT CAT6 UTP EC SERIES |

EC SERIES



CATEGORY 6 UTP ANGLED PATCH PANELS

| | |
|------------|-------------------------------------|
| 24458A-C6C | 24 PORT CAT6 UTP ANGLED 1.75" - 1RU |
| 48458A-C6C | 48 PORT CAT6 UTP ANGLED 3.50" - 2RU |

ANGLED SERIES



CATEGORY 6 F/UTP PATCH PANELS

| | |
|------------|-------------------------------------------------------|
| 24PP6CS-L | 24 PORT CAT6 F/UTP SHIELDED - 1.75" - 1RU - West Penn |
| 48PP6CS-L | 24 PORT CAT6 F/UTP SHIELDED - 1.75" - 1RU - West Penn |
| 24458S-C6C | 24 PORT CAT6 F/UTP SHIELDED - 1.75" - 1RU |

SHIELDED SERIES



CATEGORY 6 UTP MINI WALL MOUNT PANELS

| | |
|-------------|--------------------------------|
| 12458M-C6C | CAT 6 MINI PANEL w/89D Bracket |
| 12458MH-C6C | CAT 6 MINI PANEL Hinged |

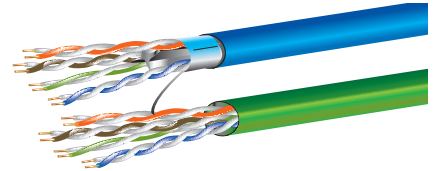
4 Pair 24 AWG UTP and F/UTP

Applications:

- Indoor for:
- 100 BASET Ethernet
- Horizontal LAN Cabling
- Voice Backbone Cabling
- Digital Integration
- AV Digital Video

Description:

- ASTM Solid Bare Copper
- Plenum and Non-Plenum Versions
- Multiple Pair Unshielded Twisted Pair Construction
- Overall Jacket



Rating:

- NEC Type CM and CMP
- (UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1666 and NFPA262
- Smoke & Flame Test
- TIA/EIA 568-B

| Catalog No. | No. of Pairs | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding | Jacket Type & Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance & Impedance |
|-------------|--------------|-----------------------------|------------------------------------|-------------------------------|--------------------------------|------------------|--------------------------|--------------------------------------|
| 4245EZ | 4 Pair | 24 AWG Solid 26 Ω/Mft | Polyolefin | None UTP | PVC | .191 | CMR | Nom. Cap. 14 pf/ft* Nom. Imp 100Ω |
| 254245EZ | 4 Pair | 24 AWG Solid 26 Ω/Mft | Flame Retardant Polyolefin/FEP | None UTP | Plenum Thermo-Plastic | .205 | CMP | Nom. Cap. 14 pf/ft* Nom. Imp 100Ω |
| 4245OSP | 4 Pair | 24 AWG Solid 26 Ω/Mft | Thermo-Plastic | None UTP Gel Water Blocked | UV Resistant PE | .255 | Outdoor | Nom. Cap. 14 pf/ft* Nom. Imp 100Ω |
| 4245IO | 4 Pair | 24 AWG Solid 26 Ω/Mft | Thermo-Plastic | None UTP Gel Water Blocked | UV Resistant Polyolefin | .251 | Indoor/ Outdoor CM | Nom. Cap. 14 pf/ft* Nom. Imp 100Ω |
| 4245F | 4 Pair | 24 AWG Solid 26 Ω/Mft | Thermo-Plastic | 100% AL.foil F/UTP | PVC | .232 | CMR | Nom. Cap. 14 pf/ft* Nom. Imp 100Ω |
| 254245F | 4 Pair | 24 AWG Solid 26 Ω/Mft | Flame Retardant Polyolefin/FEP | 100% AL.foil F/UTP | Plenum Thermo-Plastic | .218 | CMP | Nom. Cap. 14 pf/ft* Nom. Imp 100Ω |

| Insulation Color Code | | |
|-----------------------|-----------------|--------------|
| Pair No. | Pair Color Code | |
| 1 | White/Blue | Blue-White |
| 2 | White/Orange | Orange-White |
| 3 | White/Green | Green-White |
| 4 | White/Brown | Brown-White |

| Jacket Color Code |
|------------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |

| CATEGORY 5E MODULAR PLUGS | |
|---------------------------|------------------------------------------------------------|
| Catalog No. | Description |
| 32-EXEZ44-xx | Cat 5E EZ EX Series Cat 5e/6 Modular Plug - xx : 50 or 500 |
| 32-EZP | EZ 8 POSITION CAT 5E MODULAR PLUG - BAGS OF 50 |
| CN-EZSTP-EG | F/UTP Shielded CAT 5E MODULAR PLUG - BAGS OF 50 |
| HJ-325998UL | 8 POSITION CAT 5E MODULAR PLUG |
| TL-EZRJ45PROCT | CRIMP TOOL FOR 32 - EZP |
| 32-1900-xx | BOOTS: xx: WH, BK, BU, RD, GY, OR, YE, GN |

Modular Plugs

Category 5E



CATEGORY 5E RJ45 JACKS

| Catalog No. | Description |
|-----------------------------|------------------------------------------------------|
| RJ455EU-C5E-cc | RJ45 Cat5E Jack - cc: WH, BK, BL, GY, GN, OR, RD, YE |
| RJ455ES-C5E | RJ45 Cat5E Jack - F/UTP Shielded |
| KJ458MT-C5E-cc | RJ45 Cat5E Jack - cc: WH, BK, BL, GY, GN, OR, RD, YE |
| KJS458TL-C5E | RJ45 Cat5E Jack - F/UTP Shielded - Tool less |
| CATEGORY FEED THRU ADAPTERS | |
| KRJ45/5S | Category 5E Feed Thru Adapter UTP |
| KRJ45/5S-SH | Category 5E Feed Thru Adapter Shielded F/UTP |

RJ45 Jacks

Category 5E



KJ458MT-C5E-WH

Patch Cables

Category 5E



CAT5E F/UTP ASSEMBLIES - West Penn

| Catalog No. | Jacket Colors | Length |
|----------------|---------------------------|---------------------------------------|
| C5ES-CA1-cc-xx | Replace cc: GY, BK, WH | Replace xx: 3,5,7,10,15,20,25 feet |

CAT5E UTP ASSEMBLIES - West Penn

| Catalog No. | Jacket Colors | Length |
|---------------|--------------------------------------------------|---------------------------------------|
| C5E-CA1-cc-xx | Replace cc: BK, BU, GY, RD, GN, WH, YE, OR | Replace xx: 3,5,7,10,15,20,25 feet |

CAT5E F/UTP ASSEMBLIES

| Catalog No. | Jacket Colors | Length |
|----------------|--------------------------|-------------------------------------|
| C5ECS-314GY-cc | Replace cc: Only Gray | Replace xx: 3,7,10,15,20,25 feet |

CAT5E UTP ASSEMBLIES

| Catalog No. | Jacket Colors | Length |
|-----------------|--------------------------------------------------|-------------------------------------|
| C5EC-114cc-xxFB | Replace cc: BK, BU, GY, RD, GN, WH, YE, OR | Replace xx: 3,7,10,15,20,25 feet |

Patch Panels

Category 5E



CATEGORY 5E MD SERIES PATCH PANELS

| Catalog No. | Description |
|-------------|-------------------------------------------------------|
| 24PP5E-L | 24 PORT CAT5E UTP PATCH PANEL 1 RU - West Penn |
| 48PP5E-L | 48PORT CAT5E UTP PATCH PANEL 1 RU - West Penn |
| 24PP5ES-L | 24 PORT CAT5E F/UTP PATCH PANEL 1 RU - West Penn |
| 48PP5ES-L | 48 PORT CAT5E F/UTP PATCH PANEL 1 RU - West Penn |
| 12458MD-C5E | 12 PORT CAT 5E PATCH PANEL 1.75 - 1RU |
| 24458MD-C5E | 24 PORT CAT 5E PATCH PANEL 1.75 - 1RU |
| 48458MD-C5E | 48 PORT CAT 5E PATCH PANEL 3.50 - 2RU |
| 48458HD-C5E | 48 PORT CAT 5E PATCH PANEL 1.75 - 1RU high density |
| 12458M-C5E | 12 PORT MINI PANEL W/89D BRACKETS |
| 12458H-C5E | 12 PORT MINI HINGED PANEL |
| CMB-250-P | Panel Mount Cable Mng. Bar 2.50" Deep |

CATEGORY 5E MT SERIES PATCH PANELS

| Catalog No. | Description |
|-------------|---------------------------------------|
| 24458-C5E | 24 PORT CAT 5E PATCH PANEL 1.75 - 1RU |
| 48458-C5E | 48 PORT CAT 5E PATCH PANEL 3.50 - 2RU |
| 24458S-C5E | 24 PORT CAT 5E Shielded F/UTP PATCH |
| 24458A-C5E | 24 PORT CAT 5E ANGLED |
| 48458A-C5E | 48 PORT CAT 5E ANGLED |

CATEGORY 5E EC SERIES PATCH PANELS

| | |
|-------------|---------------------------------------|
| 24458EC-C5E | 24 PORT CAT 5E PATCH PANEL 1.75 - 1RU |
| 48458EC-C5E | 48 PORT CAT 5E PATCH PANEL 3.50 - 2RU |

NETWORK CONNECTIVITY TOOLS

| Catalog No. | Description |
|----------------|------------------------------------------------|
| TL-3650 | 110 ADJUSTABLE PUNCHDOWN TOOL |
| TRJ45P | RATCHET TYPE RJ45 CRIMP TOOL |
| TL-EZRJ45PROCT | EZ RATCH MODULAR PLUG CRIMP TOOL |
| KJMT-8600 | MT Series - MULTIPAIR PUNCHDOWN TOOL MT SERIES |
| KJWP-MTOOL | MULTI-PAIR PUNCHDOWN TOOL - WEST PENN WIRE |



High Pair Count Cat5E Cables



Applications:

- Indoor for:
- Analog and Digital Voice
 - Voice / Data Backbone Cabling
 - Digital Integration

Description:

- ASTM Solid Bare Copper
- Plenum and Non-Plenum Versions
- Multiple Pair Unshielded Twisted Pair Construction
- Overall Jacket

Rating:

- NEC Type CMR and CMP
- (UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1666 and NFPA262 Smoke & Flame Test
- TIA/EIA 568-B

Cat 5E

| Catalog No. | No. of Pairs | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding | Jacket Type & Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance & Impedance |
|--------------------------------------|--------------|-----------------------------|------------------------------------|-------------|--------------------------------|------------------|----------|--------------------------------------------|
| WP58141 Category 5E Non-Plenum | 25 Pair | 24 AWG Solid 26 Ω/Mft | Polyolefin .008 | None UTP | Thermo- Plastic Gray | .470 | CMR | Nom. Cap. 14 pf/ft* Nom. Imp 100Ω |
| WP58142 Category 5E Plenum | 25 Pair | 24 AWG Solid 26 Ω/Mft | FEP .008 | None UTP | FEP Gray | .430 | CMP | Nom. Cap. 14 pf/ft* Nom. Imp 100Ω |

Insulation Color Code

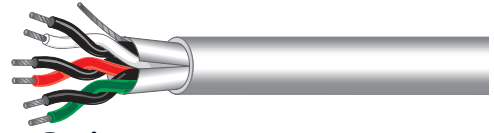
| Pair No. | Pair Color Code | | Pair No. | Pair Color Code | |
|----------|-----------------|--------------|----------|-----------------|---------------|
| 1 | White/Blue | Blue-White | 14 | Black/Brown | Brown-Black |
| 2 | White/Orange | Orange-White | 15 | Black/Gray | Gray-Black |
| 3 | White/Green | Green-White | 16 | Yellow/Blue | Blue-Yellow |
| 4 | White/Brown | Brown-White | 17 | Yellow/Orange | Orange-Yellow |
| 5 | White/Gray | Gray-White | 18 | Yellow/Green | Green-Yellow |
| 6 | Red/Blue | Blue-Red | 19 | Yellow/Brown | Brown-Yellow |
| 7 | Red/Orange | Orange-Red | 20 | Yellow/Gray | Gray-Yellow |
| 8 | Red/Green | Green-Red | 21 | Purple/Blue | Blue-Purple |
| 9 | Red/Brown | Brown-Red | 22 | Purple/Orange | Orange-Purple |
| 10 | Red/Gray | Gray-Red | 23 | Purple/Green | Green-Purple |
| 11 | Black/Blue | Blue-Black | 24 | Purple/Brown | Brown-Purple |
| 12 | Black/Orange | Orange-Black | 25 | Purple/Gray | Gray-Purple |
| 13 | Black/Green | Green-Black | | | |

Jacket Color Code

Stocked jacket colors vary by item.
For available jacket color, please contact our
Customer Service Department:
800-245-4964



Multiple Pair / Overall Shielded



Applications:

- Indoor for:
- Control
- Signaling
- Electronic Data
- Microprocessor Based
- Serial Data
- DMX Audio
- RS-485
- RS-232

Description:

- ASTM Tinned Copper
- Polyolefin Insulation
- Overall Shield 100% Coverage of Aluminum Polyester Foil with 24 AWG Strd. Tinned Copper Drain Wire Twisted Pair Construction
- Overall PVC Jacket

Rating:

- NEC Type CM
- (UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1685

Standard spool size, 1000ft.

| Catalog No. | No. of Pairs | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|---------------|-------------------------|------------------|----------|----------------------------|
| D2401 | 1 Pair | 24 AWG (7x32) 26 Ω/Mft | .013 | Al. Foil 100% | .030 | .160 | CM | 14.5 pf/ft* 26 pf/ft ** |
| D2402 | 2 Pair | 24 AWG (7x32) 26 Ω/Mft | .013 | Al. Foil 100% | .030 | .228 | CM | 14.5 pf/ft* 26 pf/ft ** |
| D2404 | 4 Pair | 24 AWG (7x32) 26 Ω/Mft | .013 | Al. Foil 100% | .030 | .268 | CM | 14.5 pf/ft* 26 pf/ft ** |

Standard spool size, 1000ft.

| Catalog No. | No. of Pairs | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|---------------|-------------------------|------------------|----------|--------------------------|
| D3651 | 2 Pair | 22 AWG (7x30) 17 Ω/Mft | .010 | Al. Foil 100% | .030 | .235 | CM | 26 pf/ft* 47 pf/ft ** |
| D3653 | 4 Pair | 22 AWG (7x30) 17 Ω/Mft | .010 | Al. Foil 100% | .030 | .268 | CM | 26 pf/ft* 47 pf/ft ** |

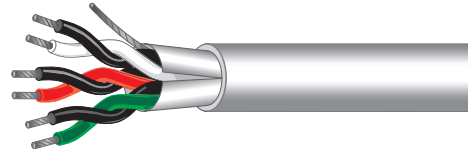
| Insulation Color Code |
|-----------------------|
| Pair Color Code |
| Pair 1. Black/Red |
| Pair 2. Black/White |
| Pair 3. Black/Green |
| Pair 4. Black/Blue |

| Electrical Characteristics |
|--------------------------------|
| Nom. Vel of Propagation - 66% |
| Nom. Impedance Ω 24 AWG - 100Ω |
| Nom. Impedance Ω 22 AWG - 55Ω |

- * Capacitance between conductors.
- ** Capacitance between one conductor and the other connected to the shield.

| Jacket Color Code |
|------------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |

Multiple Pair / Overall Shielded



Applications:

- Indoor Plenum Spaces
- Control
- Signaling
- Electronic Data
- Microprocessor Based
- Serial Data

Description:

- ASTM 24 AWG Tinned Copper
- Teflon Insulation
- Overall Shield 100% Coverage of Aluminum Polyester Foil with 24 AWG Strd. Drain Wire
- Twisted Pair Construction
- Flexible Plenum Jacket

Rating:

- NEC Type CMP
- (UL)-C(UL) Listed or c(ETL)us Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test

Standard spool size, 1000ft.

| Catalog No. | No. of Pairs | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|---------------|-------------------------|------------------|----------|---------------------------|
| D252401 | 1 | 24 AWG (7x32) 26 Ω/Mft | .013 | Al. Foil 100% | .015 | .115 | CMP | 14.5 pf/ft* 26 pf/ft** |
| D252402 | 2 | 24 AWG (7x32) 26 Ω/Mft | .013 | Al. Foil 100% | .015 | .188 | CMP | 14.5 pf/ft* 26 pf/ft** |

Electrical Characteristics
Nom. Vel of Propagation - 69%
Nom. Impedance Ω 24 AWG - 100Ω

Description:

- ASTM 22 AWG Tinned Copper
- Teflon Insulation
- Overall Shield 100% Coverage of Aluminum Polyester Foil with 24 AWG Strd. Drain Wire
- Twisted Pair Construction
- Flexible Plenum Jacket

Standard spool size, 1000ft.

| Catalog No. | No. of Pairs | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|---------------|-------------------------|------------------|----------|-------------------------|
| D253651 | 2 | 22 AWG (7x30) 17 Ω/Mft | .010 | Al. Foil 100% | .015 | .191 | CMP | 25 pf/ft* 45 pf/ft** |
| D253652 | 3 | 22 AWG (7x30) 17 Ω/Mft | .010 | Al. Foil 100% | .015 | .204 | CMP | 25 pf/ft* 45 pf/ft** |

| Insulation Color Code |
|-----------------------|
| Pair Color Code |
| Pair 1. Black/Red |
| Pair 2. Black/White |
| Pair 3. Black/Green |

| Jacket Color Code |
|------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |

* Capacitance between conductors.
** Capacitance between one conductor and the other connected to the shield.

Electrical Characteristics
Nom. Vel of Propagation - 69%
Nom. Impedance Ω 22 AWG - 55Ω

Notes:

- FEP-Fluorinated Ethylene Propylene
- Plenum Installation Precautions, see Technical Reference Section



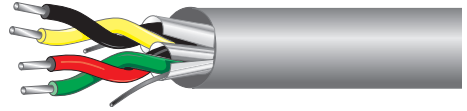
Multiple Pair / Individually Shielded

Applications:

- Indoor for:
- Control
- Signaling
- Electronic Data
- Microprocessor Based
- Serial Data

Description:

- ASTM Tinned Copper
- Polyolefin Insulation
- Each Pair Shielded 100% Coverage of Aluminum Foil with 24 AWG Strd. Tinned Copper Drain Wire
- Twisted Pair Construction
- Overall PVC Jacket



Rating:

- NEC Type CM
- (UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1685

Standard spool size, 1000ft.

| Catalog No. | No. of Pairs | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|-----------|-------------------------|------------------|----------|------------------|
|-------------|--------------|-----------------------------|-----------------------------|-----------|-------------------------|------------------|----------|------------------|

| | | | | | | | | |
|------|---|----------------------------|------|--------------------------|------|------|----|---------------------------|
| D420 | 2 | 22 AWG Solid 17.5 Ω/Mft | .015 | Individual Al. Foil 100% | .030 | .261 | CM | 15.5 pf/ft* 28 pf/ft** |
|------|---|----------------------------|------|--------------------------|------|------|----|---------------------------|

* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield.

Data Grade Plenum Cable Multiple Pair Series / Individually Shielded

Applications:

- Indoor for: Plenum Spaces
- Control
- Signaling
- Electronic Data
- Microprocessor Based
- Serial Data

Description:

- ASTM Tinned Copper
- Teflon Insulation
- Each Pair Shielded 100% Coverage of Aluminum Foil with 24 AWG Strd. Drain Wire
- Twisted Pair Construction
- Plenum PVDF Jacket

Rating:

- NEC Type CMP
- (UL)-C(UL) Listed or c(ETL)us Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test

Standard spool size, 1000ft.

| Catalog No. | No. of Pairs | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|-----------|-------------------------|------------------|----------|------------------|
|-------------|--------------|-----------------------------|-----------------------------|-----------|-------------------------|------------------|----------|------------------|

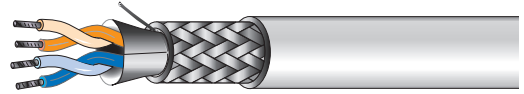
| | | | | | | | | |
|--------|---|----------------------------|------|--------------------------|------|------|-----|---------------------------|
| D25420 | 2 | 22 AWG Solid 17.5 Ω/Mft | .012 | Individual Al. Foil 100% | .015 | .185 | CMP | 15.5 pf/ft* 28 pf/ft** |
|--------|---|----------------------------|------|--------------------------|------|------|-----|---------------------------|

| Insulation Color Code |
|------------------------|
| Pair Color Code |
| 1. Black/Yellow |
| 2. Red/Green |

| Jacket Color Code |
|------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |

| |
|------------------------------------------------------------------------------------------------------|
| Electrical Characteristics Nom. Vel of Propagation - 66% Nom. Impedance Ω D420 & D25420 - 100Ω |
|------------------------------------------------------------------------------------------------------|

Multiple Pair / Overall Shielded



Applications:

- Indoor for:
- Computer Application
 - Low Capacitance Data
 - RS-485 Data Applications
 - DMX

Description:

- ASTM Tinned Copper
- Polyolefin Insulation (Non-Plenum), FEP (Plenum)
- Twisted Pair Construction
- Polyester Wrap
- Overall Shield 100% Coverage of Aluminum Polyester Foil with 24 AWG Stranded Drain Wire
- 90% Tinned Copper Braid
- Overall PVC Jacket (Non-Plenum), Flex Plenum PVC (Plenum)

Rating:

- NEC Type CM and CMP Plenum Versions
- (UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1685 and UL NFPA-262 Plenum Versions

Standard spool size, 1000ft.

| Catalog No. | No. of Pairs | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|-----------------------------------------------|-------------------------|------------------|----------|---------------------------|
| D4851 | 1 | 24 AWG (7x32) 26 Ω/Mft | .020 | Al. Foil-100% with drain wire TC Braid 90% | .032 | .232 | CM | 12.8 pf/ft* 23 pf/ft** |
| D4852 | 2 | 24 AWG (7x32) 26 Ω/Mft | .020 | Al. Foil-100% with drain wire TC Braid 90% | .032 | .340 | CM | 12.8 pf/ft* 23 pf/ft** |
| D4853 | 3 | 24 AWG (7x32) 26 Ω/Mft | .020 | Al. Foil-100% with drain wire TC Braid 90% | .032 | .360 | CM | 12.8 pf/ft* 23 pf/ft** |
| D4854 | 4 | 24 AWG (7x32) 26 Ω/Mft | .020 | Al. Foil-100% with drain wire TC Braid 90% | .032 | .390 | CM | 12.8 pf/ft* 23 pf/ft** |
| D254851 | 1 | 24 AWG (7x32) 26 Ω/Mft | Foam FEP .018 | Al. Foil-100% with drain wire TC Braid 90% | .017 | .202 | CMP | 12 pf/ft* 22 pf/ft** |
| D254852 | 2 | 24 AWG (7x32) 26 Ω/Mft | Foam FEP .018 | Al. Foil-100% with drain wire TC Braid 90% | .017 | .305 | CMP | 12 pf/ft* 22 pf/ft** |

| Insulation Color Code |
|-----------------------|
| Pair Color Code |
| Pair 1. Blue- White |
| Pair 2. Orange-White |
| Pair 3. Green-White |
| Pair 4. Brown-White |

| Jacket Color Code |
|------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |

* Capacitance between conductors.
** Capacitance between one conductor and the other connected to the shield.

| |
|--------------------------------------------------------------------------------------------------------------|
| Electrical Characteristics Nom. Vel of Propagation - 66% - (Plenum 76%) Nom. Impedance Ω 24 AWG - 120Ω |
|--------------------------------------------------------------------------------------------------------------|



OFNP Indoor / Outdoor Distribution

Applications:

- Building Interconnection
- Telecommunication and Data
- Long Haul Networking
- Ducts Between Buildings

Bend Radius (vs. Cable OD)

Installation: 20 x OD

Operation: 10 x OD

Temperature Range

Storage: -40°C to 70°C (-40°F to 158°F)

Installation: -20°C to 70°C (-4°F to 158°F)

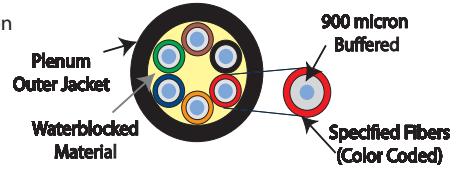
Operation: -40°C to 70°C (-40°F to 158°F)

Description:

- 900µm Tight Buffered Fibers
- Color Coded for Easy Termination
- Flame Retardant
- UL Listed for Code Compliance
- Individual Sub-Unit Jackets

Rating:

- Indoor/Outdoor Design
- **OFNP** - Plenum Rated
- Fully Water-Blocked TIA-455-82 Test



| Catalog No. | No. of Fibers | Nom. O.D. | Min Bend Radius Short Term | Min Bend Radius Long Term | Max. Load Installation | OM Rating Available |
|-------------|---------------|-----------|----------------------------|---------------------------|--------------------------|----------------------------|
| | | Inches | | | | |
| WP9X043T | 2 | .190 | 3.0 inch 7.6 cm | 2.0 inch 5.1 cm | 300 lbs. 1335 Newtons | OM1 OM3 OM4 OS1/2 |
| WP9X045T | 6 | .190 | 3.0 inch 7.6 cm | 2.0 inch 5.1 cm | 300 lbs. 1335 Newtons | OM1 OM3 OM4 OS1/2 |
| WP9X048T | 12 | .225 | 3.4 inch 8.6 cm | 2.3 inch 5.8 cm | 300 lbs. 1335 Newtons | OM1 OM3 OM4 OS1/2 |
| WP9X611T | 24 | .330 | 4.9 inch 12.4 cm | 3.3 inch 8.4 cm | 600 lbs. 2700 Newtons | OM1 OM3 OM4 OS1/2 |

Part Number Builder: Replace X with Glass Size Code

WP9C611T - 24 Fiber OM3

| Optical Characteristics | | | | | | |
|-------------------------|----------|---------|---------------------------|-------------------------|--------------------|--------------|
| Glass Type | Code (X) | OM Size | Operating Wavelength (nm) | Min. Bandwidth (MHz-km) | Max. Attn. (dB-km) | Jacket Color |
| 62.5/125µm MultiMode | B | OM1 | 850nm/1300nm | 500/500 | 3.50/1.25 | Black |
| 50/125µm MultiMode | C | OM3 | 850nm/1300nm | 1500/2500 | 3.50/1.25 | Black |
| 50/125µm MultiMode | E | OM4 | 850nm/1300nm | 3500/4700 | 3.50/1.25 | Black |
| 8/125µm SingleMode | W | OS1/2 | 1300nm/1550nm | -- | .80/.50 | Black |

10G Ethernet:
OM3: 300m
OM4: 400m

40G Ethernet
OM3: 100m
OM4: 150m

| Insulation Color Code | | |
|-------------------------------------|----------|------------|
| Fiber Optic Distribution Color Code | | |
| 1. Blue | 5. Slate | 9. Yellow |
| 2. Orange | 6. White | 10. Violet |
| 3. Green | 7. Red | 11. Rose |
| 4. Brown | 8. Black | 12. Aqua |

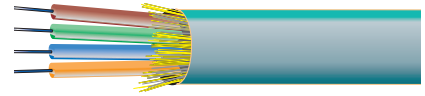
50/125µm - Digital Media Fiber Optic Type

Applications:

- Riser Wiring
- Office Wiring
- Computer Room Wiring
- Media Control - AV 8G

Description:

- 900µm Tight Buffered Fibers
- Individually Jacketed Fibers
- Color Coded for Easy Termination
- Flame Retardant
- UL Listed for Code Compliance



Rating:

- NEC Type **OFNR** - M9C006
- NEC Type **OFNP** - M9C014

| Catalog No. | No. of Fibers | Nom. O.D. | Min Bend Radius Short Term | Min Bend Radius Long Term | UL Rating | Transmission Rating |
|-------------|---------------|-----------|----------------------------|---------------------------|-----------|---------------------|
| | | Inches | | | | |
| WP9C006 | 4 | .300 | 4.5 Inch | 3.0 Inch | OFNR | OM3 50/125µm LOF |
| WP9C014 | 4 | .300 | 4.5 Inch | 3.0 Inch | OFNP | OM3 50/125µm LOF |

NOTES:

OM3 - 50/125µm Laser Optimized Fiber Cables
TIA 568-C.3 - 300 meters - @ 10G Base T

8G Fiber-Crestron

CRESFIBER8G NP
CRESFIBER8G P

WPW

M9C006
M9C014

| Optical Characteristics | | | | | | |
|-------------------------|----------|---------|---------------------------|-------------------------|--------------------|--------------|
| Glass Type | Code (X) | OM Size | Operating Wavelength (nm) | Min. Bandwidth (MHz-km) | Max. Attn. (dB-km) | Jacket Color |
| 50/125µm MultiMode | C | OM3 | 850nm/1300nm | 1500/500 | 3.50/1.25 | Aqua |



CORNING
Optical Fibers

ISO/IEC 11801, Information technology – Generic Cabling for Customer Premises is being overhauled. The last version, edition 2.2 was published in 2011. In that version, ISO/IEC 11801 was one all-inclusive document. Since then, because of its size, the standard has been divided into six parts. One part is the Optical Fiber Interconnect. The Optical Fiber Interconnect shows relative distances for different glass sizes and transmission bandwidth.

| Understanding ISO 11801 Standards | | | | | | |
|-----------------------------------|------------|-------|-------|------|------|-------|
| Transmission Standard | | 100Mb | 1Gb | 10Gb | 40Gb | 100Gb |
| OM1 | 62.5/125µm | 2000m | 275m | 33m | — | — |
| OM2 | 50/125µm | 2000m | 550m | 82m | — | — |
| OM3 | 50/125µm | 2000m | 550m | 300m | 100m | 100m |
| OM4 | 50/125µm | 2000m | 1000m | 550m | 150m | 150m |



Indoor / Outdoor Interlocking Armored

Applications:

- Campus/Inter Building
- Telecom Trunk
- Industrial
- Rugged Environments

Bend Radius (vs. Cable OD)

Installation: 20 x OD

Operation: 15 x OD

Temperature Range

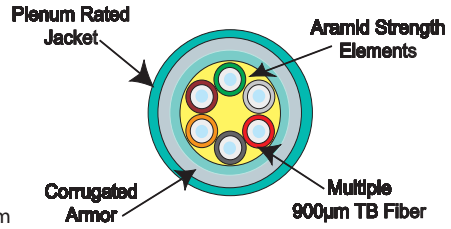
Storage: -40°C to 70°C (-40°F to 158°F)

Installation: -20°C to 70°C (-4°F to 158°F)

Operation: -40°C to 70°C (-40°F to 158°F)

Description:

- 900µm Tight Buffered Fibers
- Color Coded for Easy Termination
- Flame Retardant Plenum Rated
- Interlocking Armor
- UL Listed for Code Compliance
- Individual Sub -Unit Jackets
- Tight Buffered - Indoor/Outdoor Plenum



Rating:

- Indoor/Outdoor Design
- **OFNP** - Plenum Rated
- Fully Water - Blocked TIA-455-82 Test

| Catalog No. | No. of Fibers | Nom. O.D. | Min Bend Radius Short Term | Min Bend Radius Long Term | Max. Load Installation | OM Rating Available |
|-------------|---------------|-----------|----------------------------|---------------------------|--------------------------|---------------------|
| | | Inches | | | | |
| WP9X240T | 6 | .570 | 11 inch | 8.5 inch | 360 lbs. 1335 Newtons | OM1 OM3 SM2 |
| WP9X241T | 12 | .620 | 12.5 inch | 9.3 inch | 400 lbs. 1335 Newtons | OM1 OM3 SM2 |
| WP9X242T | 24 | .670 | 13 inch | 10 inch | 400 lbs. 1335 Newtons | OM1 OM3 SM2 |

Part Number Builder: Replace X with Glass Size Code

WP9C242T - 24 Fiber OM3 Armored

Optical Characteristics

| Glass Type | Code (X) | OM Size | Operating Wavelength (nm) | Min. Bandwidth (MHz-km) | Max. Attn. (dB-km) | Jacket Color |
|----------------------|----------|---------|---------------------------|-------------------------|--------------------|--------------|
| 62.5/125µm MultiMode | B | OM1 | 850nm/1300nm | 500/500 | 3.50/1.25 | Black |
| 50/125µm MultiMode | C | OM3 | 850nm/1300nm | 1500/2500 | 3.50/1.25 | Black |
| 50/125µm MultiMode | E | OM4 | 850nm/1300nm | 3500/4700 | 3.50/1.25 | Black |
| 8/125µm SingleMode | W | OS1/2 | 1300nm/1550nm | -- | .80/.50 | Black |

10G Ethernet:
OM3: 300m
OM4: 400m

40G Ethernet
OM3: 100m
OM4: 150m

Insulation Color Code

| Fiber Optic Distribution Color Code | | |
|-------------------------------------|----------|------------|
| 1. Blue | 5. Slate | 9. Yellow |
| 2. Orange | 6. White | 10. Violet |
| 3. Green | 7. Red | 11. Rose |
| 4. Brown | 8. Black | 12. Aqua |

Assemblies - 62.5/125µm, 50/125µm, 50/125µm OM3, and SingleMode



| ST Fiber Optic Assemblies | |
|---------------------------|---------------------------------------------------|
| Catalog No. | Description |
| FI-X001-xx | Simplex ST to ST Replace xx with: 3,6,10,15,30 |
| FI-X002-xx | Duplex ST to ST Replace xx with: 3,6,10,15,30 |

| SC Fiber Optic Assemblies | |
|---------------------------|---------------------------------------------------|
| Catalog No. | Description |
| FI-X001-xxSC | Simplex SC to SC Replace xx with: 3,6,10,15,30 |
| FI-X002-xxSC | Duplex SC to SC Replace xx with: 3,6,10,15,30 |

| LC Fiber Optic Assemblies | |
|---------------------------|---------------------------------------------------|
| Catalog No. | Description |
| FI-X001-xxLC | Simplex LC to LC Replace xx with: 3,6,10,15,30 |
| FI-X002-xxLC | Duplex LC to LC Replace xx with: 3,6,10,15,30 |

| ST to SC Fiber Optic Assemblies | |
|---------------------------------|------------------------------------------------|
| Catalog No. | Description |
| FI-X001-xxST/SC | Simplex ST to SC Replace xx with: 3,6,10,15,30 |
| FI-X002-xxST/SC | Duplex ST to SC Replace xx with: 3,6,10,15,30 |

| SC to LC Fiber Optic Assemblies | |
|---------------------------------|------------------------------------------------|
| Catalog No. | Description |
| FI-X001-xxLC/SC | Simplex SC to LC Replace xx with: 3,6,10,15,30 |
| FI-X002-xxLC/SC | Duplex SC to LC Replace xx with: 3,6,10,15,30 |

| Fiber Optic Assembly Glass Size | | |
|---------------------------------|-----------------|-------------------------------------------------------|
| Replace X with: | Core Glass Size | Description |
| 2 | 62.5µm | Standard 62.5 micron fiber optic glass type MultiMode |
| 3 | 8µm | 8micron SingleMode fiber optic glass type SingleMode |
| 4 | 50µm LOF | OM3 Laser Optimized 50micron MultiMode |
| 5 | 50µm LOF | OM4 Laser Optimized 50micron MultiMode |

OM3 15ft. LC to LC Assembly

Replace xx with: 3, 6, 10, 15, 30 Feet

FI-4002-15LC

Fiber Optic Pigtails

| Fiber Optic Pigtails | |
|----------------------|----------------------------------------------|
| FP12-51-9-003M | LC 12-Fiber Pigtail Kit, OM3, 3 Meter |
| FP12-6-2-003M | ST 12-Fiber Pigtail Kit, OM1, 3 Meter |
| FP12-9-2-003M | ST 12-Fiber Pigtail Kit, SingleMode, 3 Meter |
| FP12-9-9-003M | LC 12-Fiber Pigtail Kit, SingleMode, 3 Meter |
| FP1-51-4-003M | SC Single-Fiber Pigtail, OM3, 3 Meter |
| FP1-51-9-003M | LC Single-Fiber Pigtail, OM3, 3 Meter |
| FP1-6-4-003M | SC Single-Fiber Pigtail, OM1, 3 Meter |
| FP1-6-9-003M | LC Single-Fiber Pigtail, OM1, 3 Meter |
| FP1-9-4-003M | SC Single-Fiber Pigtail, SingleMode, 3 Meter |
| FP1-9-9-003M | LC Single-Fiber Pigtail, SingleMode, 3 Meter |
| FP6-51-4-003M | SC 6-Fiber Pigtail Kit, OM3, 3 Meter |
| FP6-51-9-003M | LC OM3 MultiMode 6-Fiber Pigtail, 3 Meters |
| FP6-6-4-003M | SC 6-Fiber Pigtail Kit, OM1, 3 Meter |
| FP6-9-4-003M | SC 6-Fiber Pigtail Kit, SingleMode, 3 Meter |
| FP6-9-9-003M | LC OS1 SingleMode 6-Fiber Pigtail, 3 Meters |



Long Length 2, 6 and 12 Fiber Pre-Terminated Cables

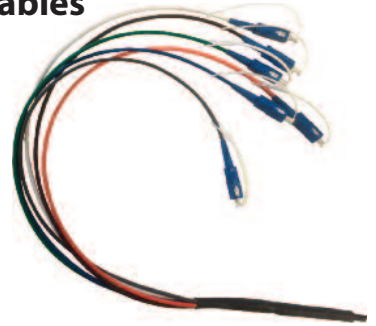
West Penn Wire's Indoor/Outdoor OFNP Pre-Terminated Fiber Optic Assemblies are perfect for fiber optic installations within a building or between two buildings.

West Penn Wire can provide fully tested long length assemblies to allow Plug and Play fiber optic installation.

West Penn Wire Pre-Terminated Long Length Fiber Assemblies are built to your specifications using the best materials with highly skilled technicians in a environmentally controlled work space. All terminations are fully tested and ready for immediate installation.

We provide either 2, 6 and 12 fiber Indoor/Outdoor OFNP OM1, OM3 OM4 and OS2 (SingleMode) long length assemblies. The assemblies are terminated at each end with ST, SC, LC connectors.

The length of fiber cable can range from 50ft up to 1000ft.



| ST TO ST | | Glass Size (X) | | | | Pull Eye Selection (P) | Length |
|-----------------|----------------------------------------------------|----------------|-----|-----|-----|---------------------------------------------------------|--------------|
| Part Number | Cable Description | OM1 | OM3 | OM4 | OS2 | Replace With A, B or No Letter | Replace xxx: |
| FI-9X043-PxxxST | Indoor/Outdoor OFNP 2 Fiber - 4 ST Connectors | B | C | E | W | A: Pulling Eye B: Pulling Eye / Connectors Staggered | 50-1000ft |
| FI-9X045-PxxxST | Indoor/Outdoor OFNP 6 Fiber - 12 ST Connectors | B | C | E | W | A: Pulling Eye B: Pulling Eye / Connectors Staggered | 50-1000ft |
| FI-9X048-PxxxST | Indoor/Outdoor OFNP 12 Fiber - 24 ST Connectors | B | C | E | W | A: Pulling Eye B: Pulling Eye / Connectors Staggered | 50-1000ft |
| SC TO SC | | Glass Size (X) | | | | Pull Eye Selection (P) | Length |
| Part Number | Cable Description | OM1 | OM3 | OM4 | OS2 | Replace With A, B or None Letter | Replace xxx: |
| FI-9X043-PxxxSC | Indoor/Outdoor OFNP 2 Fiber - 4 SC Connectors | B | C | E | W | A: Pulling Eye B: Pulling Eye / Connectors Staggered | 50-1000ft |
| FI-9X045-PxxxSC | Indoor/Outdoor OFNP 6 Fiber - 12 SC Connectors | B | C | E | W | A: Pulling Eye B: Pulling Eye / Connectors Staggered | 50-1000ft |
| FI-9X048-PxxxSC | Indoor/Outdoor OFNP 12 Fiber - 24 SC Connectors | B | C | E | W | A: Pulling Eye B: Pulling Eye / Connectors Staggered | 50-1000ft |
| LC TO LC | | Glass Size (X) | | | | Pull Eye Selection (P) | Length |
| Part Number | Cable Description | OM1 | OM3 | OM4 | OS2 | Replace With A, B or None Letter | Replace xxx: |
| FI-9X043-PxxxLC | Indoor/Outdoor OFNP 2 Fiber - 4 LC Connectors | B | C | E | W | A: Pulling Eye B: Pulling Eye / Connectors Staggered | 50-1000ft |
| FI-9X045-PxxxLC | Indoor/Outdoor OFNP 6 Fiber - 12 LC Connectors | B | C | E | W | A: Pulling Eye B: Pulling Eye / Connectors Staggered | 50-1000ft |
| FI-9X048-PxxxLC | Indoor/Outdoor OFNP 12 Fiber - 24 LC Connectors | B | C | E | W | A: Pulling Eye B: Pulling Eye / Connectors Staggered | 50-1000ft |

Other Combination of Connectors are available:

LC to SC: Use CL for Connector Type in the PN

SC to ST: Use CT for Connector Type in the PN

ST to LC: Use TL for the Connector Type in the PN

Kits and Connectors - FiberExpress - Brilliance

| FiberExpress Kit | |
|-----------------------------|--------------------------------------------------|
| P.N | Description |
| FI-4270 | FiberExpress Field Installable Complete Kit |
| FiberExpress Kit Components | |
| FI-4276 | Support Handle with Adapters LC,SC & ST |
| FI-4283 | Visual Fault Finder -VFL -250 with Adapter Cords |
| FI-3151 | Fiber/Cable Stripper |
| FI-4285 | Field Cleaving Tool |



Other Components:

- SC, ST and LC Adapters
- Alcohol Wipes
- Waste Bottle
- Safety Glasses
- Scissors
- Tweezers
- USB Key with Demo Video Files

| FiberExpress Connectors 900µm | |
|-------------------------------|------------------------------------------------|
| P.N | Description |
| LC Connectors | |
| FI-4240 | LC - 900µm, MultiMode Beige Connector, 62.5um |
| FI-5252 | LC - 900µm, MultiMode Connector, 50um OM4 |
| FI-4242 | LC - 900µm, MultiMode Aqua Connector, 50um OM3 |
| FI-4243 | LC - 900µm, SingleMode Blue Connector, 8um |
| SC Connectors | |
| FI-4244 | SC - 900µm, MultiMode Beige Connector, 62.5um |
| FI-5253 | SC - 900µm, MultiMode Connector, 50um OM4 |
| FI-4246 | SC - 900µm, MultiMode Aqua Connector, 50um OM3 |
| FI-4247 | SC - 900µm, SingleMode Connector, 8um |
| ST Connectors | |
| FI-4248 | ST - 900µm, MultiMode Beige Connector, 62.5um |
| FI-4249 | ST - 900µm, MultiMode Black Connector, 50um |
| FI-4250 | ST - 900µm, MultiMode Aqua Connector, 50um OM3 |
| FI-4251 | ST - 900µm, SingleMode Connector, 8um |



| FiberExpress 2.0mm Boots | |
|--------------------------|----------------------------------------------------|
| P.N | Description |
| FI-5214 | 2.0mm boots for FiberExpress Brilliance Connectors |

FI-5214 - This part is used for 2.0mm Jacketed fibers such as West Penn Wire:
WP9C006
WP9C014

| Dual LC Clip | |
|--------------|-------------------|
| P.N | Description |
| FI-FXBULLDB | LC/LC Duplex Clip |



Splice and Adaptors

| Splicing Tools and Splice | |
|---------------------------|-------------------------------------------|
| Catalog No. | Description |
| 3M-2501 | 3M Mechanical Splice Tool |
| 3M-2529 | 3M Splice |
| SPL-MSPL6 | Metal Splicing Tray 6 Fibers |
| SPL-MSPL12 | Metal Splicing Tray 12 Fibers |
| SPL-WS12A | Plastic Splicing Tray 12 Fibers |
| Panel Mount Adaptors | |
| FI-8102 | Adapter- ST to ST MultiMode or SingleMode |
| FI-8200 | Adapter- ST to ST SingleMode |
| MS-SC2MSP1 | SC-SC Simplex MultiMode |
| MS-SC2MDP1 | SC-SC Duplex MultiMode |
| MS-SC2SSP1 | SC-SC Simplex SingleMode |
| MS-SC2SDP1 | SC-SC Duplex SingleMode |
| MS-LC2MDP1 | LC-LC Duplex MultiMode |
| MS-LC3OD | LC-LC Duplex MultiMode OM3 |
| MS-LC1SDP1 | LC-LC Duplex SingleMode |
| MS-LC3ODQ | LC-LC Quad MultiMode OM3 |



3M-2501



3M-2529



SPL-MSPL12.



FI-8200



MS-SCMDP1



MS-LC3ODQ



MS-LC1SDP1

HDMI Fiber Optic Cables

DR - Digital Ribbon HDMI Fiber

| Fiber Optic Digital Ribbon HDMI Assemblies | |
|--------------------------------------------------|----------------------------------------|
| Catalog No. | Description |
| DR-PCB-HXXM | Digital Ribbon HDMI Fiber Cable Plenum |
| Replace XX with: 10,15,23,30,50,70,100 in meters | |
| Pulling Sock | |
| Catalog No. | Description |
| 17507 | Digital Ribbon Pulling Sock |



Rack Mount Enclosures & Wall Mount

Rack Mount Patch Panels

| | |
|---------|----------------------------------------|
| PP-W1U1 | 1 RU - Accommodates - 3 Adapter Plates |
| PP-W2U1 | 2 RU - Accommodates - 6 Adapter Plates |
| PP-W4U1 | 3 RU - Accommodates -12 Adapter Plates |
| FI-RM24 | 2 RU - Accommodated 4 Adapter Plates |
| FI-RM48 | 3 RU - Accommodated 8 Adapter Plates |

Wall Mount Patch Panels

| | |
|----------|-------------------------------------------------|
| PP-WM1S | 1 Adapter Plate - Wall Mount 7"x6"x1.5" |
| PP-WM2S | 2 Adapter Plate - Wall Mount 15.625"x13"x2.125" |
| PP-WM4S | 4 Adapter Plate - Wall Mount 15.625"x15"x3.5" |
| FI-WM12 | 2 Adapter Plate - Wall Mount WPW |
| FI-WM24 | 4 Adapter Plate - Wall Mount WPW |
| FI-WM48 | 8 Adapter Plate - Wall Mount WPW |
| FI-WM100 | 20 Adapter Plate - Wall Mount WPW |



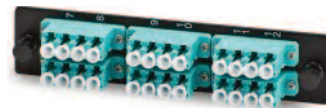
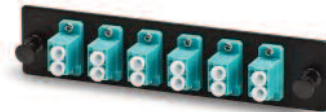
Adapter Plates & Cassettes

Fiber Optic Adapter Plates

| | |
|----------|------------------------------------------|
| AS-WC06M | SC Simplex MultiMode - 6 Fiber |
| AS-WC06G | SC Simplex OM3/4 10G MultiMode - 6 Fiber |
| AS-WC06S | SC Simplex SingleMode - 6 Fiber |
| AS-WC12M | SC Duplex MultiMode - 12 Fiber |
| AS-WC12G | SC Duplex OM3/4 10G MultiMode - 12 Fiber |
| AS-WC12S | SC Duplex SingleMode - 12 Fiber |
| AS-WT06M | ST Simplex MultiMode - 6 Fiber |
| AS-WT06S | ST Simplex SingleMode - 6 Fiber |
| AS-WT12M | ST Duplex MultiMode - 12 Fiber |
| AS-WT12S | ST Duplex SingleMode - 12 Fiber |
| AS-WL12M | LC Duplex MultiMode - 12 Fiber |
| AS-WL12G | LC Duplex OM3/4 10G MultiMode - 12 Fiber |
| AS-WL12S | LC Duplex SingleMode - 12 Fiber |
| AS-WL24M | LC Quad MultiMode - 24 Fiber |
| AS-WL24G | LC Quad OM3/4 10G MultiMode - 24 Fiber |
| AS-WL24S | LC Quad SingleMode - 24 Fiber |

Fiber Optic Cassette Plates

| | |
|------------|--------------------------------|
| DM-1MLCB24 | 24 LC SingleMode Cassette |
| DM-1MSCB12 | 12 SC SingleMode Cassette |
| DM-4MLCC12 | 12 LC Fiber Cassette OM3 1 MPO |
| DM-4MLCC24 | 24 LC OM3 Cassette 1 MPO |
| DM-4MSCC12 | 12 Fiber SC OM3 1 MPO |



Fiber Optic Cable Accessories
Adapter Plates for Enclosures
5.1" 1.15" .060"

Rack Mount Fiber Panels

Fiber Optic Adapter Plates

| | |
|-------------|----------------------------------------------|
| 12LC-FT | LC MultiMode - 24 Fiber 12 Duplex 1.75" High |
| 12SC-FT | SC MultiMode - 24 Fiber 12 Duplex 1.75" High |
| 24LC-FT | LC MultiMode - 48 Fiber 24 Duplex 3.5" High |
| 24SC-FT | SC MultiMode - 48 Fiber 24 Duplex 3.5" High |
| 48LC-FT | SC Multimode - 96 Fiber 48 Duplex 5.25" High |
| 48SC-FT | SC MultiMode - 96 Fiber 48 Duplex 5.25" High |
| FI-RME24STL | 24 Port ST Loaded (19"- 3.470"H X 8.00D) |
| FI-RME48STL | 48 Port ST Loaded (19"- 3.470"H X 8.00D) |



West Penn Wire provides certified training for Fiber Optic Installations.

What you will learn:

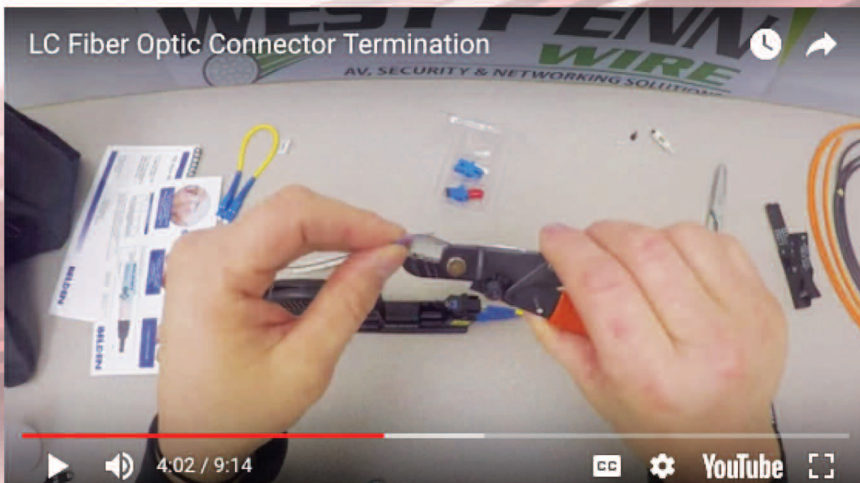
- > Optical Fiber construction
- > Advantages of a Fiber Optic Installation
- > Types of Fiber Optics
- > Connector Types
- > Connector Termination (Hands-On)
- > Splicing Fiber Optics
- > Enclosure/Panel Installation
- > System Design
- > Testing



West Penn Wire provides Installation & Termination Videos on our Resource Center at www.westpennwire.com

Termination Videos:

- > Fiber Optic ST Termination
- > Fiber Optic SC Termination
- > Fiber Optic LC Termination
- > RF 50 Ohm BNC Termination
- > Category Cabling Terminations



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VIDEO

Digital Video

| | |
|--------------------------------------|----|
| HD-SDI Cables..... | 67 |
| HD-SDI Connectors & Accessories..... | 68 |
| Category 7 Cables..... | 69 |
| Category 6A Cables..... | 70 |
| Category 6 Cables..... | 71 |
| HDMI Assemblies..... | 72 |

Analog Pro-Video

| | |
|----------------------------------|-------|
| VGA Cables..... | 74 |
| RGBHV - VGA Cables..... | 75-76 |
| Component Video Cables..... | 77 |
| Component Video Accessories..... | 78 |

Analog CCTV Cables

| | |
|------------------------------------------|-------|
| Miniature CCTV Cables 25 AWG..... | 79 |
| RG59/U CCTV Cables..... | 80-81 |
| RG6/U CCTV Cables..... | 82-83 |
| RG11/U CCTV Cables..... | 84 |
| CCTV Cable Connectors & Accessories..... | 85-86 |
| CCTV Panels & Adaptors..... | 87 |

CATV / MATV Cables

| | |
|------------------------------------|-------|
| RG6/U CATV Cables..... | 88-90 |
| RG11/U CATV Cables..... | 91 |
| CATV Connectors & Accessories..... | 92-93 |

RF 50 Ohm Video

| | |
|----------------------------|-------|
| RF 50 Ohm Cables..... | 94 |
| RF 50 Ohm Accessories..... | 95-96 |





HD-SDI Video Cables

Standard pool size, 1000ft.

| Catalog No. | NEC Type | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding & % Coverage | Jacket Type | Nom. O.D. Inches | Nom. Capacitance | Nom. VP | Nom. Imp. Ω |
|------------------------------------------------------------------------------------------------|----------|------------------------------|------------------------------------|-------------------------------------------|------------------------|------------------|------------------|---------|-------------|
| HD825 | CMR | 25 AWG (Solid) BC 30Ω/M' | Gas Injected PE .085 | Bifoil 100% Tinned Copper Braid 95% | PVC | .146 | 16.2 pf/ft | 82% | 75Ω |
| | | | | | | | | | |
| HD25825 | CMP | 25 AWG (Solid) BC 30Ω/M' | Foam FEP .078 | Bifoil 100% Tinned Copper Braid 95% | Flex Plenum | .146 | 16.2 pf/ft | 82% | 75Ω |
| | | | | | | | | | |
| 819 | CMR | 20 AWG (Solid) BC 10Ω/M' | Gas Injected PE .142 | Bifoil 100% Tinned Copper Braid 95% | PVC | .232 | 16.2 pf/ft | 82% | 75Ω |
| | | | | | | | | | |
| 25819 | CMP | 20 AWG (Solid) BC 10Ω/M' | Foam FEP .135 | Bifoil 100% Tinned Copper Braid 95% | Flex Plenum | .200 | 16.2 pf/ft | 84% | 75Ω |
| | | | | | | | | | |
| AQC819  | CM | 20 AWG (Solid) BC 10Ω/M' | Gas Injected PE .142 | Waterblock tape + Bifoil 100% TC Braid 95 | Sunlight Resistant PVC | .242 | 16.2 pf/ft | 82% | 75Ω |
| | | | | | | | | | |
| Underground In-Conduit | | | | | | | | | |
| 6350 | CMR | 18 AWG (Solid) BC 6.4Ω/M' | Gas Injected PE .180 | Bifoil 100% Tinned Copper Braid 95% | PVC | .275 | 16.2 pf/ft | 82% | 75Ω |
| | | | | | | | | | |
| 256350 | CMP | 18 AWG (Solid) BC 6.4Ω/M' | Foam FEP .170 | Bifoil 100% Tinned Copper Braid 95% | Flex Plenum | .236 | 16.2 pf/ft | 84% | 75Ω |
| | | | | | | | | | |
| AQC6350  | CM | 18 AWG (Solid) BC 6.4Ω/M' | Foam FEP .170 | Waterblock tape + Bifoil 100% TC Braid 95 | Sunlight Resistant PVC | .285 | 16.2 pf/ft | 84% | 75Ω |
| | | | | | | | | | |
| Underground In-Conduit | | | | | | | | | |

Jacket Color Code

Stocked jacket colors vary by item.
For available jacket color, please contact our
Customer Service Department:
800-245-4964





| BNC Style Compression - 360 Double Bubble | |
|-------------------------------------------|-------------------------------------|
| Catalog No. | Description |
| DB15BNCHD | MiniMax 25 AWG Cables - Purple Band |
| DB59BNCHD | RG59/U - Red Band |
| DB6BNCHD | RG6/U - Green Band |
| DB6BNCPL2 | RG6/U Plenum |
| CPLCRBC-BR | Double Bubble Compression Tool |

360 Compression System:

- True 360 Degree Compression
- Creates Permanent "Double Bubble" Connection
- Environmentally Sealed
- Superior Return Loss Values
- 75 Ohm Impedance
- Superior Pull-out Strength
- High Definition Applications

75 Ohm BNC to 75 Ohm BNC

| Digital Video MiniMax Non-Plenum | | |
|----------------------------------|---------|---------------|
| Catalog No. | Length | Jacket Colors |
| CN7BHD825BK3 | 3 Foot | Black |
| CN7BHD825BK6 | 6 Foot | |
| CN7BHD825BK10 | 10 Foot | |
| CN7BHD825BK15 | 15 Foot | |
| CN7BHD825BK20 | 20 Foot | |
| CN7BHD825BK25 | 25 Foot | |

| Digital Video MiniMax Plenum | | |
|------------------------------|---------|---------------|
| Catalog No. | Length | Jacket Colors |
| CNHD25825BK-3 | 3 Foot | Black |
| CNHD25825BK-6 | 6 Foot | |
| CNHD25825BK-10 | 10 Foot | |
| CNHD25825BK-15 | 15 Foot | |
| CNHD25825BK-20 | 20 Foot | |
| CNHD25825BK-25 | 25 Foot | |

| Digital Video RG59/U Non-Plenum | | |
|---------------------------------|---------|---------------|
| Catalog No. | Length | Jacket Colors |
| CN-7B819BK-3 | 3 Foot | Black |
| CN-7B819BK-6 | 6 Foot | |
| CN-7B819BK-10 | 10 Foot | |
| CN-7B819BK-15 | 15 Foot | |
| CN-7B819BK-20 | 20 Foot | |
| CN-7B819BK-25 | 25 Foot | |



HD-SDI Transmission Distances

| Catalog No. | Return Loss 100kHz-1GHz 1GHz-3GHz | Attenuation (db/100ft) | | | | | | | | | | | | | |
|-------------|-----------------------------------------|------------------------|---------|--------|----------|---------|---------|---------|---------|---------|-------|----------|-------|---------|--|
| | | 1 MHz | 3.6 MHz | 10 MHz | 71.5 MHz | 135 MHz | 270 MHz | 360 MHz | 540 MHz | 720 MHz | 1 GHz | 2.25 GHz | 3 GHz | 4.5 GHz | |
| HD825 | >23dB >21dB | .48 | .98 | 1.73 | 3.51 | 4.69 | 6.51 | 7.72 | 9.3 | 10.88 | 13.34 | 18.92 | 22.16 | -- | |
| HD25825 | >23dB >21dB | .48 | .99 | 1.75 | 3.54 | 4.73 | 6.57 | 7.79 | 9.38 | 10.98 | 13.46 | 19.28 | 22.80 | -- | |
| 819 | >23dB >21dB | .28 | .44 | .66 | 1.93 | 2.62 | 3.79 | 4.3 | 5.31 | 6.23 | 7.49 | 11.19 | 13.23 | 16.40 | |
| 25819 | >23dB >21dB | .28 | .48 | 1.03 | 2.20 | 2.83 | 4.55 | 5.24 | 6.12 | 7.29 | 9.40 | 17.48 | 21.60 | -- | |
| 6350 | >23dB >21dB | .23 | .36 | .5 | 1.47 | 1.93 | 2.85 | 3.22 | 3.93 | 4.65 | 5.52 | 8.75 | 10.45 | 13.30 | |
| 256350 | >23dB >21dB | .24 | .45 | .75 | 1.77 | 2.45 | 3.30 | 4.0 | 5.10 | 5.90 | 7.30 | 11.59 | 13.71 | -- | |

* Some West Penn Wire items are subject to manufacturing minimums.

SDI JACKET COLORS
Note: A minimum order quantity apply on select jacket colors.

4 Pair 22 AWG S/FTP Plenum

Applications:

- Indoor for:
- 10G BASET Ethernet
 - Horizontal LAN Cabling
 - Digital Integration 4K AV
 - AV Digital Video

Description:

- ASTM Solid Bare Copper
- Plenum Versions
- Multiple Pair Shielded F/STP Twisted Pair Construction
- Overall Jacket



Rating:

- NEC Type CMP
- (UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1666 and NFPA262 Smoke & Flame Test

Category 7 S/FTP - Test to 600Mhz - 10G

Standard spool size, 1000ft.

| Catalog No. | No. of Pairs | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding | Jacket Type & Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance & Impedance |
|-------------|--------------|-----------------------------|------------------------------------|-----------|--------------------------------|------------------|----------|--------------------------------------------|
| 254247F | 4 Pair | 22 AWG Solid 24 Ω/Mft | FEP | S/FTP | Plenum Thermo-Plastic | .305 | CMP | Nom. Cap. 14 pf/ft* Nom. Imp 100Ω |

Insulation Color Code

| Pair No. | Pair Color Code | |
|----------|-----------------|--------------|
| 1 | White/Blue | Blue-White |
| 2 | White/Orange | Orange-White |
| 3 | White/Green | Green-White |
| 4 | White/Brown | Brown-White |

Jacket Color Code

Stocked jacket colors vary by item.
For available jacket color, please contact our
Customer Service Department:
800-245-4964



4 Pair 23 AWG F/UTP and UTP

Applications:

- Indoor for:
- 10G BASET Ethernet
- Horizontal LAN Cabling
- Digital Integration 4K AV
- AV Digital Video

Description:

- ASTM Solid Bare Copper
- Non-Plenum & Plenum Versions
- Multiple Pair Shielded F/UTP Twisted Pair Construction
- Overall Jacket

Rating:

- NEC Type CMP
- (UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1666 and NFPA262 Smoke & Flame Test



Category 6A F/UTP - Test to 750Mhz - 10G

Standard spool size, 1000ft.

| Catalog No. | No. of Pairs | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding | Jacket Type & Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance & Impedance |
|-------------|--------------|-----------------------------|------------------------------------|-----------|--------------------------------|------------------|----------|--------------------------------------|
| 4246AF | 4 Pair | 23 AWG Solid 24 Ω/Mft | Thermo-Plastic | F/UTP | PVC | .303 | CMR | Nom. Cap. 14 pf/ft* Nom. Imp 100Ω |
| 254246AF | 4 Pair | 23 AWG Solid 24 Ω/Mft | FEP | F/UTP | Plenum Thermo-Plastic | .305 | CMP | Nom. Cap. 14 pf/ft* Nom. Imp 100Ω |

Category 6A UTP - Test to 750Mhz - 10G

Applications:

- Indoor for:
- 10G BASET Ethernet
- Horizontal LAN Cabling
- IPBaseT 4K AV Distribution

Description:

- ASTM Solid Bare Copper
- Non-Plenum & Plenum Versions
- Multiple Pair Shielded UTP Twisted Pair Construction
- Overall Jacket



| Catalog No. | No. of Pairs | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding | Jacket Type & Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance & Impedance |
|-------------|--------------|-----------------------------|------------------------------------|-----------|--------------------------------|------------------|----------|--------------------------------------|
| 4246A | 4 Pair | 23 AWG Solid 22 Ω/Mft | Thermo-Plastic | UTP | PVC | .307 | CMR | Nom. Cap. 13 pf/ft* Nom. Imp 100Ω |
| 254246A | 4 Pair | 23 AWG Solid 22 Ω/Mft | FEP | UTP | Plenum Thermo-Plastic | .305 | CMP | Nom. Cap. 13 pf/ft* Nom. Imp 100Ω |

Insulation Color Code

| Pair No. | Pair Color Code | |
|----------|-----------------|--------------|
| 1 | White/Blue | Blue-White |
| 2 | White/Orange | Orange-White |
| 3 | White/Green | Green-White |
| 4 | White/Brown | Brown-White |

Jacket Color Code

Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964

4 Pair 23 AWG UTP and F/UTP

Applications:

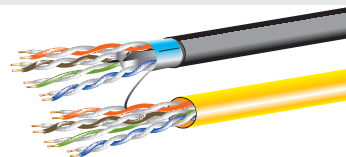
- Indoor for:
- 1G BASET Ethernet
- Horizontal LAN Cabling
- Voice Backbone Cabling
- Digital Integration
- AV Digital Video

Description:

- ASTM Solid Bare Copper
- Plenum and Non-Plenum Versions
- Multiple Pair Shielded F/UTP
- Twisted Pair Construction
- Overall Jacket

Rating:

- NEC Type C and CMP
- (UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1666 and NFPA262 Smoke & Flame Test
- TIA/EIA 568-B.2



Category 6 F/UTP - Test to 550Mhz

Standard pool size, 1000ft.

| Catalog No. | No. of Pairs | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding | Jacket Type & Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance & Impedance |
|-------------|--------------|-----------------------------|------------------------------------|-----------|--------------------------------|------------------|----------|--------------------------------------------|
| 4246F | 4 Pair | 23 AWG Solid 24 Ω/Mft | Thermo-Plastic | F/UTP | PVC | .290 | CMR | Nom. Cap. 14 pf/ft* Nom. Imp 100Ω |
| 254246F | 4 Pair | 23 AWG Solid 24 Ω/Mft | FEP | F/UTP | Plenum Thermo-Plastic | .280 | CMP | Nom. Cap. 14 pf/ft* Nom. Imp 100Ω |

Category 6 UTP Test to 550Mhz

Description:

- ASTM Solid Bare Copper
- Plenum and Non-Plenum Versionz
- Multiple Pair Unshielded Twisted Pair Construction
- Overall Jacket

Rating:

- NEC Type CM and CMP
- (UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1666 and NFPA262 Smoke & Flame Test
- TIA/EIA 568-B.2

| Catalog No. | No. of Pairs | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding | Jacket Type & Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance & Impedance |
|------------------------------|--------------|-----------------------------|------------------------------------|--------------------------------|----------------------------------|------------------|----------|--------------------------------------------|
| 4246EZ | 4 Pair | 23 AWG Solid 24 Ω/Mft | Polyolefin | None UTP | PVC | .220 | CMR | Nom. Cap. 14 pf/ft* Nom. Imp 100Ω |
| 254246EZ | 4 Pair | 23 AWG Solid 24 Ω/Mft | Flame Retardant Polyolefin/FEP | None UTP | Plenum Thermo-Plastic | .225 | CMP | Nom. Cap. 14 pf/ft* Nom. Imp 100Ω |
| 4246OSP Outdoor | 4 Pair | 23 AWG Solid 24 Ω/Mft | Thermo-Plastic Polyolefin | None UTP Gel Water-Blocked | UV Resistant PE | .266 | - | Nom. Cap. 14 pf/ft* Nom. Imp 100Ω |
| 4246IO Indoor/ Outdoor | 4 Pair | 23 AWG Solid 24 Ω/Mft | Thermo-Plastic Polyolefin | None UTP- Gel Water-Blocked | UV Resistant Polyolefin .040" | .271 | CM | Nom. Cap. 14 pf/ft* Nom. Imp 100Ω |

Insulation Color Code

| Pair No. | Pair Color Code | |
|----------|-----------------|--------------|
| 1 | White/Blue | Blue-White |
| 2 | White/Orange | Orange-White |
| 3 | White/Green | Green-White |
| 4 | White/Brown | Brown-White |

Jacket Color Code

Stocked jacket colors vary by item.
For available jacket color, please contact our
Customer Service Department:
800-245-4964



IPBaseT® Certified Fiber Optic Assemblies

| IPX System Fiber Optic Cables | |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Catalog No. | Description |
| FI-GIG-GIDY-XX | 2 x OM3 50 Micron Fiber + 18/2 Copper Power Cable. Both Ends are terminated with SFP (OM 3 LC Type). One End has a removable Pulling Eye for easy pull. Lengths: 150ft, 230ft, 330ft, 500ft, 750ft and 1000ft. Custom Lengths are Available |



HDMI Assemblies

| HDMI Assemblies | |
|-----------------|--------------------------------------------------------------------------------------------------------------------|
| Catalog No. | Description |
| CA-HDMIccc-xx | 18G HDMI 2.0a Assemblies Multiple Colors Flexible ccc: Color BLU, BLK, RED, GRN xx: Length 05, 1, 2, 3, 5 meter |
| CN-HDExxxWP | HDMI UltraHD and 4K Molded Assemblies xxx: Length 002, 003, 005, 007, 010, 015, 020 meters |



| HDMI Assemblies - Locking | |
|---------------------------|-------------------------------------------------------------------------------------|
| Catalog No. | Description |
| HD600-xxB | High Retention HDMI Assemblies Up to 1080P xx: Length 3, 6, 12 feet |
| HD-800-xx | HDMI Locking Assemblies 25lbs. 3D and 4K xx: Length 2, 4, 8, 16, 25, 35, 50 feet |



| HDMI Plenum Rated Assemblies | |
|------------------------------|----------------------------------------------------------------------------------------|
| Catalog No. | Description |
| DR-PCB-HxxM | Digital Ribbon HDMI Fiber Optic Assemblies xx: Length 10, 15, 23, 30, 50, 70 meters |
| CN-CPHMHMETHxx | High Speed HDMI Assemblies with Ethernet Plenum xx: Length 15, 25, 35, 50 feet |



Category 7 and Category 6A F/UTP Cable Accessories

| RJ45 Jacks | |
|--------------|---------------------------------------------------|
| RJ456AS-C6A | RJ45 Cat6A F/UTP - 10G West Penn Wire Branded |
| KJS458TL-C6A | RJ45 Cat6A F/UTP - 10G - Metal - Tool less |
| KJS458MT-C6A | RJ45 Cat6A F/UTP - 10G - Metal MT Style Punchdown |

| Modular Plugs | |
|---------------|------------------------------|
| CN-MFP8 | Cat 7 F/STP Modular Plug 10G |

| Patch Panels | |
|--------------|---------------------------------------------------|
| 24PP6AS-L | 24 PORT CAT6A F/UTP 10G - 1.75" - 1RU- West Penn |
| 48PP6AS-L | 24 PORT CAT6A F/UTP 10G - 1.75" - 1RU - West Penn |

Category 6 F/UTP Cable Accessories

| CATEGORY 6 & 6A F/UTP Modular Plug | |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Catalog No. | Description |
| 106190 | Cat6A Modular Plug 10G with Ext. Ground- BAG 100 |
| 106192 | Cat6A Modular Plug 10G with Ext. Ground - BAG 50 |
| 90170 | Cat6A 10G Termination Kit: 106190 + 12515C (Crimp Tool) + 15010C (Strip Tool) + 12360C (Ext. Ground Crimp Tool) |
| 90170-BI | Cat6A 10G Termination Kit: 106190 + 12515C (Crimp Tool) + 15010C (Strip Tool) + 12360C (Ext. Ground Crimp Tool)+BOOTS |

| CATEGORY 6A F/UTP Jacks | |
|-------------------------|--------------------------------------------------|
| Catalog No. | Description |
| RJ456S-C6C | RJ45 Cat6 F/UTP - Metal - West Penn Wire Branded |
| KJS458TL-C6C | RJ45 Cat6 F/UTP - Metal - Tool less |

| CATEGORY 6 F/UTP PATCH PANELS | |
|-------------------------------|-------------------------------------------------------|
| 24PP6CS-L | 24 PORT CAT6 F/UTP SHIELDED - 1.75" - 1RU - West Penn |
| 48PP6CS-L | 24 PORT CAT6 F/UTP SHIELDED - 1.75" - 1RU - West Penn |
| 24458S-C6C | 24 PORT CAT6 F/UTP SHIELDED - 1.75" - 1RU |

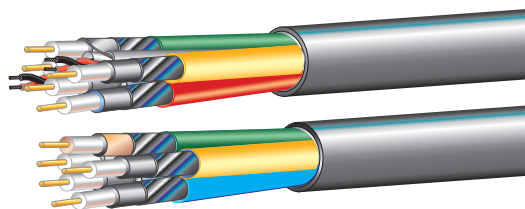
For all Connectivity, Patch Cables, Patch Panels and other Network Cable Accessories see: Networking Section, Pages 45-53



RGB 25 AWG Spiral Shielded Cables

Applications:

- Standard Definition Serial Digital Video
- Digital Audio (AES3id or SPDIF)
- High Resolution RGB Component Analog Video
- Studio Interconnect, Permanent Installation
- Ideal for Broadcast Interconnection
- Division 27 41 00



Standard spool size, 1000ft.

| Catalog No. | NEC Type | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding & % Coverage | Jacket Type | Nom. O.D. Inches | Nom. Capacitance | Nom. VP | Nom. Imp. Ω |
|--------------------------------------|----------|-------------------------------------------------|------------------------------------|----------------------------------------------|------------------------------------------------------------|------------------|------------------|---------|-------------|
| 5CRGB 5 Coax RGBHV | CM | 5 Conductor 25 AWG (Solid) BC 32.5Ω/M' | Gas Injected PE .073 | Bifoil* 100% + TC Spiral Shield 95% | Overall PVC Ind. Coax PVC .105 | .330 | 16.2 pf/ft | 82% | 75Ω |
| 255CRGB 5 Coax RGBHV Plenum | CMP | 5 Conductor 25 AWG (Solid) BC 32.5Ω/M' | Foam FEP .073 | Bifoil* 100% + TC Spiral Shield 95% | Overall Flex Plenum Ind. Coax Flex Plenum .105 | .310 | 16.2 pf/ft | 82% | 75Ω |

| | | | |
|---------------------|----------------------------------|-------------------------|----------------------------------|
| Connector Type | Connectors | Strip Tool | Crimp/Comp Tool |
| 75Ω 3 Pc. Crimp BNC | CN-BM74-19 | TL-KLEIN or TL-825 | TL-105 |
| 75Ω Compression BNC | CN-BNCP-RGB | TL-KLEIN or TL-CSST-RGB | TL-548G |
| RCA Compression | CN-RCP-RGB | TL-KLEIN or TL-CSST-RGB | TL-548G |
| HD15 Term.Block | CN-MX15M Male CN-MX15F Female | | CN-MX915H Hood CN-MX915H Hood |

| Individual Jacket Color Code |
|------------------------------|
| 1. Red |
| 2. Green |
| 3. Blue |
| 4. White |
| 5. Yellow |

Notes:

- 500ft put up lengths may be available, minimum quantities may apply.

| Overall Jacket Color Code |
|---------------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |

Electrical Specifications

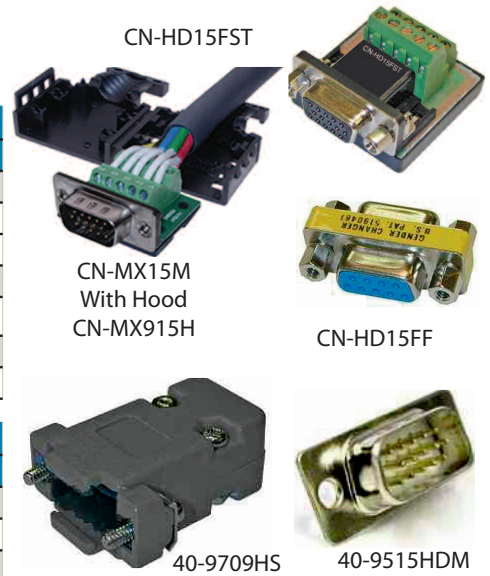
| Catalog No. | Return Loss 100kHz- 1GHz 1GHz-3GHz | Attenuation (db/100ft) | | | | | | | | | | | |
|-------------|---------------------------------------------|------------------------|---------|--------|----------|---------|---------|---------|---------|---------|-------|----------|-------|
| | | 1 MHz | 3.6 MHz | 10 MHz | 71.5 MHz | 135 MHz | 270 MHz | 360 MHz | 540 MHz | 720 MHz | 1 GHz | 2.25 GHz | 3 GHz |
| 25 AWG | >23dB >21dB | .49 | 1.18 | 1.7 | 4.56 | 6.10 | 8.46 | 10.04 | 12.09 | 14.14 | 17.85 | 24.60 | 38.81 |

Video Connectors

HD15 - VGA And DB9

| HD15 Terminal Block Connectors | |
|--------------------------------|----------------------------------------|
| Catalog No. | Description |
| CN-HD15FST | HD15(F) Terminal Block |
| CN-MX15F | PREMIUM HD15(F) Terminal Block |
| CN-MX15M | PREMIUM HD15(M) Terminal Block |
| CN-MX9F | PREMIUM DB9(F) Terminal Block RS-232 |
| CN-MX9M | PREMIUM DB9(M) Terminal Block - RS-232 |
| CN-MX915H | Hood for PREMIUM Terminal Blocks |
| CN-HD15FF | HD15 Feed Thru |

| DB and HD Connectors and Hoods | |
|--------------------------------|--------------------------------|
| Catalog No. | Description |
| 40-9709HS | 9 Pin DB Sub Hood - BLACK HOOD |
| 40-9515HDM | 15 Pin HD Male Solder |
| 40-9515HDS | 15 Pin HD Female Solder |



Video Connectors

75 Ohm BNC Crimp Style

| 75 Ohm BNC Crimp Style | |
|------------------------|----------------------------------|
| Catalog No. | Description |
| CN-BM74-19 | 4 Pc Miniature RGBHV 25 & 26 AWG |
| CN-BM74-18 | 4 Pc MiniMax 25 AWG Miniature |
| CN-BM74-32 | 4 Pc RG59 / U PVC or Plenum |
| CN-BM73-5 | 3 Pc. RG6 / U PVC |
| CN-BM73-4 | 3 Pc. RG6 / U Plenum |



BTN58-xx - Strain Relief Boots for Miniature Coaxial Connectors
 BTN59-xx - Strain Relief Boots for RG59/U Coaxial Connectors
 xx: RD,GN,BL,WH,YE,BK

Video Connectors

75 Ohm BNC and RCA Compression Style

| 75 Ohm BNC Compression Style - Window | |
|---------------------------------------|-----------------------------------------------|
| Catalog No. | Description |
| CN-BNCP-RGB | 1 Pc. Miniature 25 AWG RGB - Window |
| CN-BNCP-825 | 1 Pc. MiniMax 25 AWG Window |
| CN-BNC59MVCV | 1 Pc. RG59 / U Window - Universal - YE |
| CN-BNC6MVCV | 1 Pc. RG6 / U Window - Universal - PU |
| CN-RR | Colored Rings - Bag of 100- for small profile |

| RCA Style - Compression - Window | |
|----------------------------------|----------------------------------------------|
| Catalog No. | Description |
| CN-RCP-RGB | 1 Pc. Miniature RGB 25 AWG Window |
| CN-RCP-825 | 1 Pc. MiniMax 25 AWG RCA Window |
| CN-RCA59MVCV | 1 Pc. RG59 / U Window RCA Window - Universal |
| CN-RCA6MVCV | 1 Pc. RG6 / U Window RCA Window - Universal |



VGA - HD15 To HD15

SVGA ASSEMBLIES and with Audio

| HD15(M) to HD15(M) Economy | | |
|----------------------------|------------------------|-----------------------------|
| Catalog No. | Description | Length (FT) |
| CN-VGAMM-xx | HD15 Male to HD15 Male | Replace xx with: 6,10,25,50 |

| VGA 5-25 AWG RGB HD15(F) to HD15(M) Plenum | | |
|--------------------------------------------|----------------------|-----------------------------------|
| Catalog No. | Description | Length (FT) |
| CN255CRGHDFMxx | HD15 (F) to HD15 (M) | Replace xx with: 25,50,75,100,150 |

| VGA 5-25 AWG RGB HD15(M) to HD15(M) Plenum | | |
|--------------------------------------------|----------------------|-----------------------------------|
| Catalog No. | Description | Length (FT) |
| CN255CRGHDMMxx | HD15 (M) to HD15 (M) | Replace xx with: 25,50,75,100,150 |

| VGA 5-25 AWG RGB HD15(M) to HD15(M) Non-PLENUM | | |
|------------------------------------------------|----------------------|-----------------------------------|
| Catalog No. | Description | Length (FT) |
| CN-5CRGHDMMxx | HD15 (M) to HD15 (M) | Replace xx with: 25,50,75,100,150 |

| VGA with Audio | | |
|----------------|---------------------------------------|--------------------------|
| Catalog No. | Description | Length (FT) |
| CN-HDVGAAP-xx | VGA with Audio HD15 (M) + 3.5mm Audio | Replace xx with: 6,10,25 |



CN-HDVGAAP - xx

Installation Tools

| Stripping Tools | |
|-----------------|-------------------------------------------|
| Catalog No. | Description |
| TL-825 | MiniMax 25 AWG |
| TL-CSST | Compression Strip Tool - 2 Cut - RG59 & 6 |
| TL-KLEIN | All Purpose Strip Tool |

TL-825



| Tools Crimp and Compression | |
|-----------------------------|----------------------------|
| Catalog No. | Description |
| TL-105 | MiniMax 25 AWG and 26 AWG |
| TL-803 | Universal MiniMax and RG59 |
| TL-548G | Alternate Compression Tool |

TL-SNSA

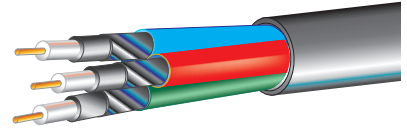


Crimp Tool Die Sizes: inches

TL-105: .068, .178

TL-803: .065, .068, .178, .213, .255

RGB 25 and 26 AWG Spiral Shielded Cables



Applications:

- Standard Definition Serial Digital Video
- Digital Audio (AES3id or SPDIF)
- High Resolution RGB Component Analog Video
- Studio Interconnect, Permanent Installation
- Ideal for Broadcast Interconnection

Standard spool size, 1000ft.

| Catalog No. | NEC Type | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding & % Coverage | Jacket Type | Nom. O.D. Inches | Nom. Capacitance | Nom. VP | Nom. Imp. Ω |
|------------------------------|----------|----------------------------------------|------------------------------------|------------------------------------|------------------------------------------------|------------------|------------------|---------|-------------|
| 3CRGB 3 Coax RGB | CM | 3 Conductor 25 AWG (Solid) BC 32.5Ω/M' | Gas Injected PE .073 | Bifoil 100% + TC Spiral Shield 95% | Overall PVC Ind. Coax PVC .105 | .290 | 16.2 pf/ft | 82% | 75Ω |
| 253CRGB 3 Coax RGB Plenum | CMP | 3 Conductor 25 AWG (Solid) BC 32.5Ω/M' | Foam FEP .073 | Bifoil 100% + TC Spiral Shield 95% | Overall Flex Plenum Ind. Coax Flex Plenum .105 | .260 | 16.2 pf/ft | 82% | 75Ω |

| Individual Jacket Color Code |
|------------------------------|
| 1. Red |
| 2. Green |
| 3. Blue |

| Overall Jacket Color Code |
|------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |

Connectors and Tools

| Connector Type | Connectors | Strip Tool | Crimp/Comp Tool |
|----------------------------|-------------|---------------------|-----------------|
| 75Ω 3 Pc. Crimp BNC 25/26g | CN-BM74-19 | TL-KLEIN or TL-825 | TL-105 |
| 75Ω Compression BNC 25g | CN-BNCP-RGB | TL-KLEIN or TL-CSST | TL-548G |
| RCA Compression 25g | CN-RCP-RGB | TL-KLEIN or TL-CSST | TL-548G |

Notes:

500ft put up lengths may be available, minimum quantities may apply.

Electrical Specifications

| Catalog No. | Return Loss 100kHz-1GHz 1GHz-3GHz | Attenuation (db/100ft) | | | | | | | | | | | |
|-------------|-----------------------------------------|------------------------|---------|--------|----------|---------|---------|---------|---------|---------|-------|----------|-------|
| | | 1 MHz | 3.6 MHz | 10 MHz | 71.5 MHz | 135 MHz | 270 MHz | 360 MHz | 540 MHz | 720 MHz | 1 GHz | 2.25 GHz | 3 GHz |
| 25 AWG | >23dB >21dB | .49 | 1.18 | 1.7 | 4.56 | 6.10 | 8.46 | 10.04 | 12.09 | 14.14 | 17.85 | 24.60 | 38.81 |



Video Connectors

75 Ohm BNC - Compression

| 75 Ohm BNC Compression Style | |
|------------------------------|--------------------------------------------|
| Catalog No. | Description |
| CN-BNCP-RGB | 1 Pc. Compression BNC for 25 AWG Solid RGB |



Video Connectors

75 Ohm BNC - Crimp

| 75 Ohm BNC Crimp Style | |
|------------------------|-----------------------------------|
| Catalog No. | Description |
| CN-BM74-19 | 4 Pc. Miniature RGBHV 25 & 26 AWG |



Video Connectors

RCA - Video Connector

| RCA Compression Video Style | |
|-----------------------------|--------------------------------------|
| Catalog No. | Description |
| CN-RCP-RGB | Compression RCA for 25 AWG Solid RGB |



Installation Tools

| Stripping Tools | |
|-----------------|-------------------------------------------|
| Catalog No. | Description |
| TL-825 | MiniMax 25 AWG |
| TL-CSST | Compression Strip Tool - 2 Cut - RG59 & 6 |
| TL-KLEIN | All Purpose Strip Tool |

| Tools Crimp and Compression | |
|-----------------------------|----------------------------|
| Catalog No. | Description |
| TL-105 | MiniMax 25 AWG and 26 AWG |
| TL-803 | Universal MiniMax and RG59 |
| TL-548G | Alternate Compression Tool |

Component Video Assemblies

| 3 COAX Component Video RGB RCA Economy | |
|----------------------------------------|------------------------------------------------|
| Catalog No. | Description |
| CN-E3RCA-xx | 3 COAX PVC RGB Replace xx with: 3,6,12 feet |

| 3 Miniature Component Video 26AWG RCA Plenum | | |
|----------------------------------------------|----------------|------------------------------------------|
| Catalog No. | Description | Length (FT) |
| CN253CRGBRCAxx | 3 COAX PVC RGB | Replace xx with: 12, 25,50,75,100,150 |

| 3 - Miniature RGB 25 AWG PVC 75Ω BNC | | |
|--------------------------------------|---------------------------------------------|------------------------------------------|
| Catalog No. | Description | Length (FT) |
| CN-3CRGB-xx | 3 COAX Plenum RGB 3 BNC (M) to 3 BNC (M) | Replace xx with: 12, 25,50,75,100,150 |

| 3 - Economy RGB PVC 75Ω BNC | | |
|-----------------------------|------------------------------------------|----------------------------|
| Catalog No. | Description | Length (FT) |
| CN-E3BNC-xx | 3 COAX PVC RGB 3 BNC (M) to 3 BNC (M) | Replace xx with: 3,6,12 |



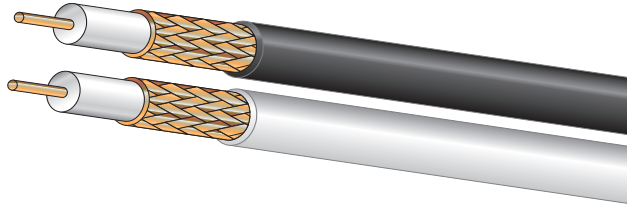
ANALOG CCTV CABLES

CCTV MINIMAX

Minimax Miniature

Applications:

- CCTV - Up to 500ft.
- Security Baseband Video
- Rack Building Cables
- Division 28 05 13



Standard spool size, 1000ft.

| Catalog No. | NEC Type | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding & % Coverage | Jacket Type | Nom. O.D. Inches | Nom. Capacitance | Nom. VP | Nom. Imp. Ω |
|-------------|----------|-----------------------------|------------------------------------|--------------------------------|----------------|------------------|------------------|---------|-------------|
| 825 | CM | 25 AWG (Solid) BC 30Ω/M' | Gas Injected PE† .085 | Bare Copper Braid 95% | PVC | .146 | 16.2 pf/ft | 82% | 75Ω |
| | | | | | | | | | |
| 25825 | CMP | 25 AWG (Solid) BC 30Ω/M' | Foam FEP .078 | Bare Copper Braid 95% | Flex Plenum | .146 | 16.2 pf/ft | 82% | 75Ω |
| | | | | | | | | | |
| 825182 | CM | 25 AWG (Solid) BC 30Ω/M' | Gas Injected PE† .085 | Bare Copper Braid 95% | PVC | | 16.2 pf/ft | 82% | 75Ω |
| | | | | | | | | | |



Jacket Color Code

Stocked jacket colors vary by item.
For available jacket color, please contact our
Customer Service Department:
800-245-4964

Notes:

- 500ft put up lengths may be available, minimum quantities may apply.
- †- Gas Injected Polyethylene 100% Sweep Tested up to 3Ghz

Electrical Specifications

| Catalog No. | Return Loss 100kHz- 1GHz | Attenuation (db/100ft) | | | | | | | | |
|-------------|--------------------------------|------------------------|--------|--------|---------|---------|---------|---------|---------|-------|
| | | 1 Mhz | 10 Mhz | 50 Mhz | 100 Mhz | 200 Mhz | 400 Mhz | 700 Mhz | 900 Mhz | 1 Ghz |
| Non-Plenum | >23dB | .5 | 1.8 | 3.12 | 4.19 | 5.79 | 8.59 | 11.14 | 13.22 | 14.41 |
| Plenum | >23dB | .5 | 1.8 | 3.12 | 4.40 | 6.41 | 9.66 | 12.61 | 14.95 | 16.18 |



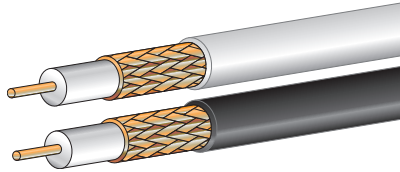
ANALOG CCTV CABLES

CCTV RG59 / U


RG59 / U Type

Applications:

- CCTV- Up to 1200ft.
- Security Baseband Video
- Division 28 05 13



Standard spool size, 1000ft.

| Catalog No. | NEC Type | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding & % Coverage | Jacket Type | Nom. O.D. Inches | Nom. Capacitance | Nom. VP | Nom. Imp. Ω |
|-----------------------------------------------------------------------------------|----------|--------------------------------|------------------------------------|------------------------------------------|------------------------|------------------|------------------|---------|-------------|
| 815 | CMR | 20 AWG (Solid) BC 10.1 Ω/M' | Gas Injected PE† .142 | Bare Copper Braid 95% | PVC | .232 | 16.2 pf/ft | 82% | 75Ω |
| | | | | | | | | | |
| 815E | CM | 20 AWG (Solid) BC 10.1 Ω/M' | Gas Injected PE† .142 | Copper Alloy 95% | PVC | .232 | 16.2 pf/ft | 82% | 75Ω |
| | | | | | | | | | |
| AQC815 | CM | 20 AWG (Solid) BC 10.1 Ω/M' | Gas Injected PE† .142 | Bare Copper Braid 95% + Aquaseal Tape | Sunlight Resistant PVC | .242 | 16.2 pf/ft | 82% | 75Ω |
|  | | | | | | | | | |
| 4815 | -- | 20 AWG (Solid) BC 10.1 Ω/M' | Gas Injected PE† .142 | Bare Copper Braid 95% | Inner Jkt. PVC | .242 | 16.2 pf/ft | 82% | 75Ω |
| | | | | | Direct Burial | | | | |
| 25815 | CMP | 20 AWG (Solid) BC 10.1 Ω/M' | Foam FEP .135 | Bare Copper Braid 95% | Flex. Plenum | .198 | 16.2 pf/ft | 82% | 75Ω |
| | | | | | | | | | |

Jacket Color Code

Stocked jacket colors vary by item.
For available jacket color, please contact our
Customer Service Department:
800-245-4964

Notes:

- 500ft put up lengths may be available, minimum quantities may apply.
- †- Gas Injected Polyethylene 100% Sweep Tested up to 3Ghz

Electrical Specifications

| Catalog No. | Return Loss 100kHz- 1GHz | Attenuation (db/100ft) | | | | | | | | |
|-------------|--------------------------------|------------------------|--------|--------|---------|---------|---------|---------|---------|-------|
| | | 1 Mhz | 10 Mhz | 50 Mhz | 100 Mhz | 200 Mhz | 400 Mhz | 700 Mhz | 900 Mhz | 1 Ghz |
| RG59/U | >23dB | .29 | .68 | 1.8 | 3.0 | 3.54 | 4.71 | 6.40 | 7.33 | 7.80 |
| 815E | >23dB | .45 | .9 | 1.9 | 3.2 | 4.0 | 4.9 | 8.6 | 9.8 | 10.70 |

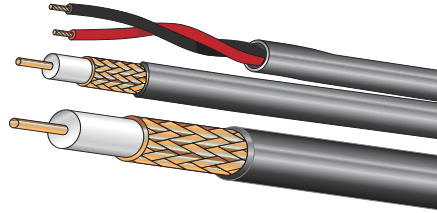
ANALOG CCTV CABLES

CCTV RG59 / U SIAMESE

Siamese Construction Video & Power

Applications:

- CCTV
- Security Baseband Video
- Economy CCTV - Up to 750ft
- Division 28 05 13



Standard spool size, 1000ft.

| Catalog No. | NEC Type | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding & % Coverage | Jacket Type | Nom. O.D. Inches | Nom. Capacitance | Nom. VP | Nom. Imp. Ω |
|-------------|----------|--------------------------------|------------------------------------|------------------------|--------------|-------------------|------------------|---------|-------------|
| 2815B | CM | 20 AWG (Solid) BC 10.1 Ω/M' | Gas Injected PE† .142 | Bare Copper Braid 95% | PVC | .232 x .465 | 16.2 pf/ft | 82% | 75Ω |
| | | | | | | | | | |
| 2815E | CM | 20 AWG (Solid) BC 10.1 Ω/M' | Gas Injected PE† .142 | Copper Alloy 95% | PVC | .232 x .465 | 16.2 pf/ft | 82% | 75Ω |
| | | | | | | | | | |
| 252815 | CMP | 20 AWG (Solid) BC 10.1 Ω/M' | Foam FEP .135 | Bare Copper Braid 95% | Flex. Plenum | .198 x .465 | 16.2 pf/ft | 82% | 75Ω |
| | | | | | | | | | |

Jacket Color Code

Stocked jacket colors vary by item.
For available jacket color, please contact our Customer Service Department:
800-245-4964

Connectors and Tools

| Connector Type | Connectors | Strip Tool | Crimp/Comp Tool |
|---------------------|-------------|------------|-----------------|
| 75Ω 3 Pc. Crimp BNC | CN-BM74-32 | TL-7503 | TL-104 |
| 75Ω Compression BNC | CN-BNC59MCV | TL-CSST | TL-548G |

Notes:

- 500ft put up lengths may be available, minimum quantities may apply.
- †- Gas Injected Polyethylene 100% Sweep Tested
- Standard Spool size, 1000ft.
- Spools are one piece, but lengths may vary +/- 10%
- †- Gas Injected Polyethylene 100% Sweep Tested up to 3Ghz

Electrical Specifications

| Catalog No. | Return Loss 100kHz-1GHz | Attenuation (db/100ft) | | | | | | | | |
|----------------|-------------------------|------------------------|--------|--------|---------|---------|---------|---------|---------|-------|
| | | 1 Mhz | 10 Mhz | 50 Mhz | 100 Mhz | 200 Mhz | 400 Mhz | 700 Mhz | 900 Mhz | 1 Ghz |
| RG59/U | >23dB | .29 | .68 | 1.8 | 3.0 | 3.54 | 4.71 | 6.40 | 7.33 | 7.80 |
| Economy RG59/U | >23dB | .45 | .9 | 1.9 | 3.2 | 4.0 | 4.9 | 8.6 | 9.8 | 10.70 |
| Plenum RG59/U | >23dB | .30 | .68 | 1.80 | 3.00 | 3.91 | 5.30 | 7.24 | 8.29 | 8.76 |



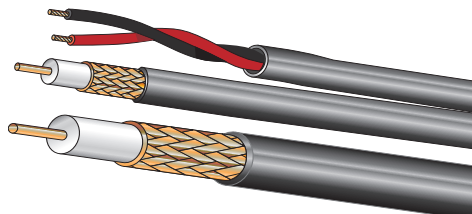
ANALOG CCTV CABLES

CCTV RG6 / U

Non-Plenum & Indoor / Outdoor

Applications:

- CCTV- Up to 1600ft.
- Security Baseband Video
- Division 28 05 13



Standard spool size, 1000ft.

| Catalog No. | NEC Type | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding & % Coverage | Jacket Type | Nom. O.D. Inches | Nom. Capacitance | Nom. VP | Nom. Imp. Ω |
|--------------------------------------------------------------------------------------------------------------|----------|-------------------------------|------------------------------------|----------------------------------------|------------------------|-------------------|------------------|---------|-------------|
| 806 | CMR | 18 AWG (Solid) BC 6.5 Ω/M' | Gas Injected PE † .180 | Bare Copper Braid 95% | PVC | .270 | 16.2 pf/ft | 82% | 75Ω |
| 2806B | CM | 18 AWG (Solid) BC 6.5 Ω/M' | Gas Injected PE† .180 | Bare Copper Braid 95% | PVC | .280 x .580 | 16.2 pf/ft | 82% | 75Ω |
| Siamese Construction This cable contains 1 coax unit plus 1 pair 16 AWG Stranded Unshielded | | | | | | | | | |
| AQC806 | CM | 18 AWG (Solid) BC 6.5 Ω/M' | Gas Injected PE† .180 | Bare Copper Braid 95% Aquaseal Tape | Sunlight Resistant PVC | .280 | 16.2 pf/ft | 82% | 75Ω |
| <i>Underground- In-Conduit</i> | | | | | | | | | |
| AQC2806 | CM | 18 AWG (Solid) BC 6.5 Ω/M' | Gas Injected PE† .180 | B.C Braid 95% Aquaseal Tape | Sunlight Resistant PVC | .280 x .580 | 16.2 pf/ft | 82% | 75Ω |
| <i>Underground- In-Conduit</i> | | | | | | | | | |
| Siamese Construction This cable contains 1 coax unit plus 1 pair 16 AWG Stranded Unshielded Aquaseal Tape | | | | | | | | | |

Jacket Color Code

Stocked jacket colors vary by item.
For available jacket color, please contact our
Customer Service Department:
800-245-4964

Connectors and Tools

| Connector Type | Connectors | Strip Tool | Crimp/Comp Tool |
|---------------------|------------|------------|-----------------|
| 75Ω 3 Pc. Crimp BNC | CN-BM73-5 | TL-7503 | TL-107 |
| 75Ω Compression BNC | CN-BNC6MCV | TL-CSST | TL-548G |

Notes:

- 500ft put up lengths may be available, minimum quantities may apply.
- †- Gas Injected Polyethylene 100% Sweep Tested up to 3Ghz

Electrical Specifications

| Catalog No. | Return Loss 100kHz-1GHz | Attenuation (db/100ft) | | | | | | | | |
|------------------|-------------------------|------------------------|--------|--------|---------|---------|---------|---------|---------|-------|
| | | 1 Mhz | 10 Mhz | 50 Mhz | 100 Mhz | 200 Mhz | 400 Mhz | 700 Mhz | 900 Mhz | 1 Ghz |
| RG6/U Non-Plenum | >23dB | .24 | .52 | 1.18 | 1.83 | 2.73 | 3.95 | 5.38 | 6.13 | 6.45 |

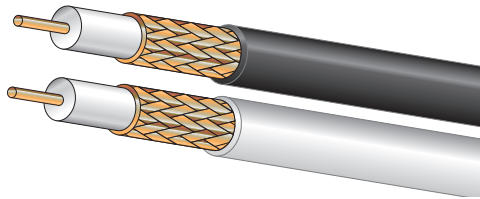
ANALOG CCTV CABLES

CCTV RG6 / U

RG6 / U Type Plenum

Applications:

- CCTV
- Security Baseband Video
- Division 28 05 13



Standard spool size, 1000ft.

| Catalog No. | NEC Type | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding & % Coverage | Jacket Type | Nom. O.D. Inches | Nom. Capacitance | Nom. VP | Nom. Imp. Ω |
|-------------|----------|-------------------------------|------------------------------------|------------------------|--------------|---------------------|------------------|------------|-----------------|
| 25806 | CMP | 18 AWG (Solid) BC 6.5 Ω/M' | Foam FEP .170" | Bare Copper Braid 95% | Flex. Plenum | .230" | 16.2 pf/ft | 82% | 75Ω |
| | | | | | | Connector Type | Connectors | Strip Tool | Crimp/Comp Tool |
| | | | | | | 75Ω 3 Pc. Crimp BNC | CN-BM73-4 | TL-7503 | TL-107 |
| | | | | | | 75Ω Compression BNC | CN-BNC6MVCV | TL-CSST | TL-548G |

Electrical Specifications

| Catalog No. | Return Loss 100kHz-1GHz | Attenuation (db/100ft) | | | | | | | | |
|--------------|-------------------------|------------------------|--------|--------|---------|---------|---------|---------|---------|-------|
| | | 1 Mhz | 10 Mhz | 50 Mhz | 100 Mhz | 200 Mhz | 400 Mhz | 700 Mhz | 900 Mhz | 1 Ghz |
| Plenum RG6/U | >23dB | .24 | .52 | 1.18 | 1.93 | 3.02 | 4.45 | 6.09 | 6.93 | 7.24 |

Direct Burial Outdoor

Applications:

- CCTV
- Security Baseband Video

Direct Burial RG6 / U Cables

Standard spool size, 1000ft.

| Catalog No. | NEC Type | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding & % Coverage | Jacket Type | Nom. O.D. Inches | Nom. Capacitance | Nom. VP | Nom. Imp. Ω |
|---------------|----------|-------------------------------|------------------------------------|------------------------|----------------|------------------|------------------|---------|-------------|
| 4806 | -- | 18 AWG (Solid) BC 6.5 Ω/M' | Gas Injected PE† .180 | Bare Copper Braid 95% | Inner Jkt. PVC | .280 | 16.2 pf/ft | 82% | 75Ω |
| Direct Burial | | | | | Outer Jkt. PE | .330 | | | |

Jacket Color Code

Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964

Connectors and Tools

| Connector Type | Connectors | Strip Tool | Crimp/Comp Tool |
|---------------------|-------------|------------|-----------------|
| 75Ω 3 Pc. Crimp BNC | CN-BM73-5 | TL-7503 | TL-107 |
| 75Ω Compression BNC | CN-BNC6MVCV | TL-CSST | TL-548G |

Notes:

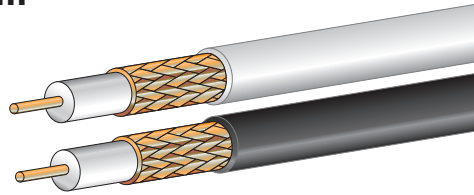
- 500ft put up lengths may be available, minimum quantities may apply.
- †- Gas Injected Polyethylene 100% Sweep Tested up to 3Ghz



RG11 / U Type Non-Plenum & Plenum

Applications:

- CCTV - Up to 2000ft.
- Security Baseband Video
- Division 28 05 13



Standard spool size, 1000ft.

| Catalog No. | NEC Type | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding & % Coverage | Jacket Type | Nom. O.D. Inches | Nom. Capacitance | Nom. VP | Nom. Imp. Ω |
|-----------------------|-------------|-------------------------------|------------------------------------|--------------------------|----------------|------------------|------------------|---------|-------------|
| 811 | CM | 14 AWG (Solid) BC 2.6 Ω/M' | Gas Injected PE† .280 | Bare Copper Braid 95% | PVC | .405 | 16.2 pf/ft | 82% | 75Ω |
| 4811 Direct Burial | -- | 14 AWG (Solid) BC 2.6 Ω/M' | Gas Injected PE† .280 | Bare Copper Braid 95% | Inner Jkt. PVC | .405 | 16.2 pf/ft | 82% | 75Ω |
| | | | | | Outer Jkt. PE | .455 | | | |
| 25811 Plenum | CL2P CMP | 14 AWG (Solid) BC 2.6 Ω/M' | Foam FEP .280 | Bare Copper Braid 95% | Copolymer | .352 | 16 pf/ft | 82% | 75Ω |

Jacket Color Code

Stocked jacket colors vary by item.
For available jacket color, please contact our
Customer Service Department:
800-245-4964

Connectors and Tools

| Connector Type | Connectors | Strip Tool | Crimp/Comp Tool |
|---------------------|------------|------------|-----------------|
| 75Ω 3 Pc. Crimp BNC | CN-BM53-26 | TL-124 | TL-113 |
| 75Ω Compression BNC | FS11BNC | PS11 | CPLCCGT-11BNC |

Notes:

- 500ft put up lengths may be available, minimum quantities may apply.
- † Gas Injected Polyethylene 100% Sweep Tested up to 3Ghz

Electrical Specifications

| Catalog No. | Return Loss 100kHz- 1GHz | Attenuation (db/100ft) | | | | | | | | |
|----------------------|--------------------------------|------------------------|--------|--------|---------|---------|---------|---------|---------|-------|
| | | 1 Mhz | 10 Mhz | 50 Mhz | 100 Mhz | 200 Mhz | 400 Mhz | 700 Mhz | 900 Mhz | 1 Ghz |
| RG11/U Non-Plenum | >23dB | .16 | .35 | .87 | 1.38 | 1.98 | 2.95 | 4.00 | 4.54 | 4.77 |
| RG11/U Plenum | >23dB | .16 | .35 | .87 | 1.44 | 2.19 | 3.32 | 4.53 | 5.14 | 5.35 |

Security Cable Assemblies BNC to BNC



| CCTV - Cable Assemblies RG59/U | |
|--------------------------------|-------------------------------------|
| Catalog No. | Length (ft.) |
| CN-7B815BK-xx | Replace xx with: 3,6,10,15,20,25 |

| CCTV - Cable Assemblies MiniMax 25 AWG | | |
|----------------------------------------|---------|-------------------------------------------------------------------------------------|
| Catalog No. | Length | Jacket Colors |
| CN-7B825**-3 | 3 Foot | **- Jacket Colors Black-BK, Blue-BL, Red-RD, Yellow-YE, Green-GN, White-WH |
| CN-7B825**-6 | 6 Foot | |
| CN-7B825**-10 | 10 Foot | |
| CN-7B825**-15 | 15 Foot | |
| CN-7B825**-20 | 20 Foot | |
| CN-7B825**-25 | 25 Foot | |

| CCTV - Cable Assemblies Plenum MiniMax 25 AWG | | |
|-----------------------------------------------|---------|-------------------------------------------------------------------------------------|
| Catalog No. | Length | Jacket Colors |
| CN-7B25825**-3 | 3 Foot | **- Jacket Colors Black-BK, Blue-BL, Red-RD, Yellow-YE, Green-GN, White-WH |
| CN-7B25825**-6 | 6 Foot | |
| CN-7B25825**-10 | 10 Foot | |
| CN-7B25825**-15 | 15 Foot | |
| CN-7B25825**-20 | 20 Foot | |
| CN-7B25825**-25 | 25 Foot | |

Security Accessories 75 Ohm BNC Compression Style

| 75 Ohm BNC Compression Style - Window | |
|---------------------------------------|--------------------------------------|
| Catalog No. | Description |
| CN-BNCP-RGB | 1 Pc. Miniature 25 AWG RGB - Window |
| CN-BNCP-825 | 1 Pc. MiniMax 25 AWG 825 - Window |
| CN-BNC59MCV | 1 Pc. RG59/U Window - Universal - YE |
| CN-BNC6MCV | 1 Pc. RG6/U Window - Universal - PU |

| 75 Ohm BNC Compression Style - ProSNS | |
|---------------------------------------|-----------------------------------------|
| Catalog No. | Description |
| FS11BNC | RG11 BNC Compression |
| FSNS11HBCNPLA | BNC RG11 Plenum Compression |
| FSNS6BNCU | ProSNS RG6 CCTV BNC Compression |
| FSNS6BNCPL | ProSNS RG6 CCTV BNC Compression Plenum |
| FSNS59BNCPL | ProSNS RG59 CCTV BNC Compression |
| FSNS59BNCPL | ProSNS RG59 CCTV BNC Compression Plenum |



3 Pc. 75 Ohm BNC



Security Accessories 75 Ohm BNC Crimp Style

| 75 Ohm BNC Crimp Style | |
|------------------------|--------------------------------|
| Catalog No. | Description |
| CN-BM74-19 | 4 Pc. Miniature RGBHV |
| CN-BM74-18 | 4 Pc. Minimax Miniature |
| CN-BM74-32 | 4 Pc. RG59/U PVC or Plenum |
| CN-BM73-5 | 3 Pc. RG6/U PVC |
| CN-BM73-4 | 3 Pc. RG6/U Plenum |
| CN-BM73-3 | 3 Pc. P806 Connector |
| CN-BF74-18 | 4 Pc. Female Minimax Miniature |



Coax strain boots

B58TN-xx - Strain Relief Boots for Miniature Coaxial Connectors
B59TN-xx - Strain Relief Boots for RG59/U Coaxial Connectors
xx: RD,GN,BL,WH,YE,BK



Security Accessories

Stripping Tools

| Stripping Tools | |
|-----------------|-------------------------------------------|
| Catalog No. | Description |
| TL-124 | 3 Cut Tool RG8, RG11, RG213 |
| TL-825 | MiniMax 25 AWG |
| TL-CSST | Compression Strip Tool - 2 Cut - RG59 & 6 |
| TL-KLEIN | All Purpose Strip Tool |
| TL-121 | Pro Series 3 step adjustable blades |
| PS11 | Compression Strip Tool - 2 Cut- RG11 |

TL-825



TL-KLEIN

TL-107



Security Accessories

Crimp Tools

| Tools Crimp and Compression | |
|-----------------------------|------------------------------------|
| Catalog No. | Description |
| TL-104 | RG58, RG59/U, RG59 Plenum |
| TL-105 | MiniMax 25 AWG and 26 AWG |
| TL-803 | Universal MiniMax and RG59 |
| TL-107 | Universal RG59, RG6 |
| TL-113 | RG8/U & RG11/U |
| TL-115 | RG8/U Plenum 25810 |
| TL-119 | RG8X/U |
| TL-548G | Compression Tool |
| CPLCCT-SLM | Compression Tool ProSNS Connectors |
| CPLCCT-11BNC | RG11/U Comp. Tool |
| SNSUNI | RG11/U Plenum BNC Compression Tool |

Crimp Tool Die Sizes: inches

TL-104: .068, .213, .255

TL-105: .068, .178

TL-803: .065, .068, .178, .213, .255

TL-107: .068, .093, .213, .255, .311

TL-113: .102, .359, .406

TL-115: .068, .100, .324, .384

TL-119: .068, .110, .213, .255, .324

Notes:

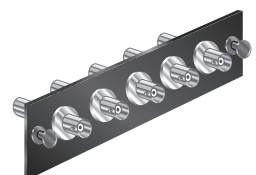
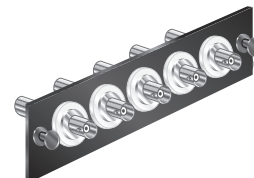
TL-548G - Accepts RG59, RG6, & RG11
RECOMMENDED FOR WINDOW STYLE

Security Accessories

Enclosures, Plates and Racks

| Wall Mount Enclosures | |
|-----------------------|-------------------------------------------------|
| PP-WM1S | 1 Adapter Plate - Wall Mount 7"x6"x1.5" |
| PP-WM2S | 2 Adapter Plate - Wall Mount 15.625"x13"x2.125" |
| PP-WM4S | 4 Adapter Plate - Wall Mount 15.625"x15"x3.5" |
| FI-WM12 | 12 Port Double Door, Wall Mount - 4 Plates |
| FI-WM48 | 48 Port Double Door, Six Pack Empty - 8 Plates |
| FI-WM100 | 100/120 Port Wall Mount Patch Panel |

| BNC Adapter Plates | |
|--------------------|-------------------------------------------------|
| CN-ADPBNC | 5 BNC Female to Female Plate Installed |
| CN-ADPBISO | 5 BNC Female to Female Plate Isolated Installed |
| CN-ADPBNC | 5 BNC Position Empty |
| CN-AD6PBNC | Blank Plate |



Security Products Rack Mount Panels



| Rack Mount Patch Panels | |
|-------------------------|-----------------------------------------------|
| PP-W1U1 | Empty Rack - Load with 3 Adapter Plates 1 RU |
| PP-W2U1 | Empty Rack - Load with 6 Adapter Plates 2 RU |
| PP-W4U1 | Empty Rack - Load with 12 Adapter Plates 3 RU |
| CN-BNCL-16 | 16 Port BNC Loaded (19" - 1RU) |
| CN-BNCL-32 | 32 Port BNC Loaded (19" - 2RU) |
| CN-BNCL-48 | 48 Port BNC Loaded (19" - 2RU) |
| CN-BNCIL-16 | 16 Port BNC Isolated Loaded (19" - 1RU) |
| CN-BNCIL-32 | 32 Port BNC Isolated Loaded (19" - 2RU) |
| CN-BNCIL-48 | 48 Port BNC Isolated Loaded (19" - 2RU) |



CN-ADP506



CN-ADP511

Accessories Adaptors

| Coaxial Adaptors | |
|------------------|-----------------------------------|
| CN-ADP503 | BNC Right Angle M to F |
| CN-ADP703 | 75 Ohm BNC RA M to F |
| CN-ADP506 | BNC - T-3 Female |
| CN-ADP505 | BNC - T-2 Female - 1 Male |
| CN-ADP705 | 75 Ohm BNC - T-2 F - 1 M |
| CN-ADP755 | 75 Ohm Splice |
| CN-ADP511 | BNC M to M |
| CN-ADP504 | BNC F to UHF F |
| CN-MT-50 | 50 Ohm BNC Terminator |
| CN-MT-75 | 75 Ohm BNC Terminator |
| CN-ADP500 | BNC F to UHF M |
| CN-ADP756 | 75 Ohm BNC F to F Bulkhead |
| CN-ADP559 | BNC F to F Bulkhead - UG49 |
| CN-ADP516 | BNC M to "F" Female |
| CN-ADP512 | BNC M to UHF F |
| CN-ADP807 | BNC M to "N" F |
| CN-ADP523 | BNC 2 Female - 1 Male Goal Post |
| CN-ADP-ST | BNC Bulkhead - Tab |
| CN-ADP-ST75 | 75 Ohm BNC Bulkhead - Solder Tab |
| CN-ADP521 | BNC F to F Iso. Bulkhead - 75 Ohm |
| CN-ADP521-50 | BNC F to F Iso. Bulkhead - 50 Ohm |
| CN-ADP501 | BNC F to RCA M |
| CN-ADP515 | BNC M to RCA F |
| CN-ADP106 | RCA F to "F" Male |
| CN-ADP103 | RCA M to "F" Female |



CN-ADP703



CN-ADP755



CN-ADP505



CN-MT-75



CN-ADP504



CN-ADP516



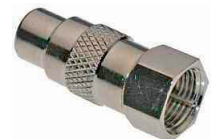
CN-ADP756



CN-ADP807



CN-ADP500



CN-ADP106



CN-ADP501



CN-ADP103



CN-ADP512



CN-ADP515



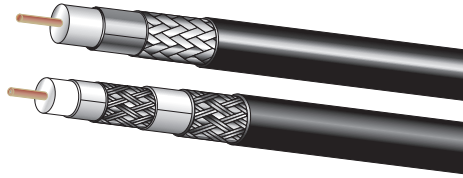
CATV / MATV CABLES

RG6 / U Cables


RG6 / U Type

Applications:

- CATV / MATV
- Division 27 41 33



Standard spool size, 1000ft.

| Catalog No. | NEC Type | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding & % Coverage | Jacket Type | Nom. O.D. Inches | Nom. Capacitance | Nom. VP | Nom. Imp. Ω |
|-------------------------------------------------------------------------------------------------------------|------------|---------------------------------|------------------------------------|-------------------------------------------------------------|-----------------------------------------------|-------------------------------------|----------------------------------|--------------------------------------|-------------|
| 841 | CATV CM | 18 AWG (Solid) BC 6.5 Ω/M' | Gas Injected PE .180 | Bifoil* 100% + Alum. Braid 65% | PVC | .265 | 16.2 pf/ft | 82% | 75Ω |
| | | | | | Connector Type "F" Type "F" Compression | Connector CN-F56ALM CN-F6MVCV | Strip Tool TL-7502 TL-CSST | Crimp/Comp Tool TL-111 TL-548G | |
| 6100 | CATV | 18 AWG (Solid) CCS 28.0 Ω/M' | Gas Injected PE .180 | Bifoil* 100% + Alum. Braid 61% | PVC | .265 | 16.2 pf/ft | 82% | 75Ω |
| | | | | | Connector Type "F" Type "F" Compression | Connector CN-F56ALM CN-F6MVCV | Strip Tool TL-7502 TL-CSST | Crimp/Comp Tool TL-111 TL-548G | |
| AQC841 | CM | 18 AWG (Solid) BC 6.5 Ω/M' | Gas Injected PE .180 | Bifoil* 100% + Waterblock tape Al. Braid 65% | Underground In-Conduit | | | | |
|  Water Resistant Cables | | | | | Sunlight Resistant PVC | .275 | 16.2 pf/ft | 82% | 75Ω |
| 6140 Flooded Burial | -- | 18 AWG (Solid) CCS 28.0 Ω/M' | Gas Injected PE .180 | Bonded Bifoil*100% Al. Braid 61% Flooding | Sunlight Resistant PE | .275 | 16.2 pf/ft | 82% | 75Ω |
| | | | | | Connector Type "F" Type "F" Compression | Connector CN-F56AQ CN-F6MVCV | Strip Tool TL-7502 TL-CSST | Crimp/Comp Tool TL-111 TL-548G | |
| HF6100 | CM-LS | 18 AWG (Solid) CCS 28.0 Ω/M' | Gas Injected PE .180 | Bifoil* 100% + Alum. Braid 61% | LSZH | .265 | 16.2 pf/ft | 82% | 75Ω |
| | | | | | Connector Type "F" Type "F" Compression | Connector CN-F56ALM CN-F6MVCV | Strip Tool TL-7502 TL-CSST | Crimp/Comp Tool TL-111 TL-548G | |

Jacket Color Code

Stocked jacket colors vary by item.
For available jacket color, please contact our
Customer Service Department:
800-245-4964

Notes:

• 500ft put up lengths may be available, minimum quantities may apply.

*-Bifoil is an Aluminum Polyester Aluminum Tape with 100% Coverage
100% Sweep Tested, 0.3MHz to 3GHz

Electrical Specifications

| Catalog No. | Return Loss 100kHz-1GHz 1GHz-3GHz | Attenuation (db/100ft) | | | | | | | | | | | |
|----------------------------------------|-----------------------------------------|------------------------|--------|---------|---------|---------|---------|---------|-------|----------|---------|----------|-------|
| | | 5 MHz | 55 MHz | 100 MHz | 270 MHz | 400 MHz | 550 MHz | 750 MHz | 1 GHz | 1.45 GHz | 1.8 GHz | 2.25 GHz | 3 GHz |
| Non-Plenum RG6/U Gas Injected PE | >23dB >21dB | .57 | 1.45 | 1.85 | 3.07 | 3.85 | 4.62 | 5.40 | 6.3 | 8.05 | 8.85 | 9.99 | 11.9 |

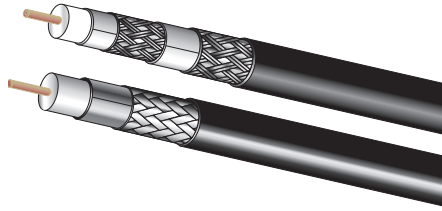
CATV / MATV CABLES

RG6 / U Quad-Shielded

RG6 / U Type Quad-Shielded

Applications:

- CATV / MATV
- Division 27 41 33



Standard spool size, 1000ft.

| Catalog No. | NEC Type | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding & % Coverage | Jacket Type | Nom. O.D. Inches | Nom. Capacitance | Nom. VP | Nom. Imp. Ω |
|--------------------------------|------------|---------------------------------|------------------------------------|---------------------------------------------------------------------|-----------------------------|------------------|------------------|---------|-------------|
| HQ841 Quad-Shield | CATV | 18 AWG (Solid) BC 6.5 Ω/M' | Gas Injected PE .180 | Bifoil* +Al. Braid 60%+ Bifoil* + Al. 40% Braid | PVC | .295 | 16.2 pf/ft | 82% | 75Ω |
| | | | | | | | | | |
| Q841 Quad-Shield | CATV CM | 18 AWG (Solid) BC 6.5 Ω/M' | Gas Injected PE .180 | Bifoil* +Al. Braid 65% + Bifoil* + Al. Braid 55% | PVC | .295 | 16.2 pf/ft | 82% | 75Ω |
| | | | | | | | | | |
| 6300 Quad-Shield | CATV | 18 AWG (Solid) CCS 28.0 Ω/M' | Gas Injected PE .180 | Bonded Bifoil* +Al. Braid 60% + Bifoil* + Al. Braid 40% | PVC | .295 | 16.2 pf/ft | 82% | 75Ω |
| | | | | | | | | | |
| 6310 Quad-Shield Outdoor | -- | 18 AWG (Solid) CCS 28.0 Ω/M' | Gas Injected PE .180 | Bonded Bifoil* +Al. Braid 60% + Bifoil* + Al. Braid 40% | Sunlight Resistant PE | .295 | 16.2 pf/ft | 82% | 75Ω |
| | | | | | | | | | |

Jacket Color Code

Stocked jacket colors vary by item.
For available jacket color, please contact our
Customer Service Department:
800-245-4964

Notes:

- 500ft put up lengths may be available, minimum quantities may apply.

*-Bifoil is an Aluminum Polyester Aluminum Tape with 100% Coverage
100% Sweep Tested, 0.3MHz to 3GHz

Electrical Specifications

| Catalog No. | Return Loss 100kHz-1GHz 1GHz-3GHz | Attenuation (db/100ft) | | | | | | | | | | | |
|----------------------------------------|-----------------------------------------|------------------------|--------|---------|---------|---------|---------|---------|-------|----------|---------|----------|-------|
| | | 5 MHz | 55 MHz | 100 MHz | 270 MHz | 400 MHz | 550 MHz | 750 MHz | 1 GHz | 1.45 GHz | 1.8 GHz | 2.25 GHz | 3 GHz |
| Non-Plenum RG6/U Gas Injected PE | >23dB >21dB | .57 | 1.45 | 1.85 | 3.07 | 3.85 | 4.62 | 5.40 | 6.3 | 8.05 | 8.85 | 9.99 | 11.9 |



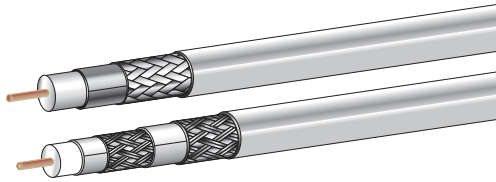
CATV / MATV CABLES

RG6 / U Plenum Cables

RG6 / U Plenum Type

Applications:

- CATV / MATV for Plenum Spaces
- Division 27 41 33



Standard spool size, 1000ft.

| Catalog No. | NEC Type | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding & % Coverage | Jacket Type | Nom. O.D. Inches | Nom. Capacitance | Nom. VP | Nom. Imp. Ω |
|-----------------------|--------------|-------------------------------|------------------------------------|-----------------------------------------------------------|-----------------------------------------------|------------------|------------------|---------|-------------|
| 25841 | CATVP CMP | 18 AWG (Solid) BC 6.5 Ω/M' | Foam FEP .170 | Bifoil* 100 + Alum. Braid 77% | Flex. Plenum | .237 | 16.2 pf/ft | 82% | 75Ω |
| | | | | | Connector Type "F" Type "F" Compression | | | | |
| 256100 | CATVP CMP | 18 AWG (Solid) CCS 28 Ω/M' | Foam FEP .170 | Bifoil* 100 + Alum. Braid 60% | Flex. Plenum | .237 | 16.2 pf/ft | 82% | 75Ω |
| | | | | | Connector Type "F" Type "F" Compression | | | | |
| 25Q841 Quad-Shield | CATVP CMP | 18 AWG (Solid) BC 6.5 Ω/M' | Foam FEP .170 | Bifoil* +Al. Braid 65% + Bifoil* + Al. Braid 55% | Flex. Plenum | .273 | 16.2 pf/ft | 82% | 75Ω |
| | | | | | Connector Type "F" Type "F" Compression | | | | |
| 256300 Quad-Shield | CATVP CMP | 18 AWG (Solid) CCS 28 Ω/M' | Foam FEP .170 | Bifoil* +Al. Braid 60% + Bifoil* + Al. Braid 40% | Flex. Plenum | .270 | 16.2 pf/ft | 82% | 75Ω |
| | | | | | Connector Type "F" Type "F" Compression | | | | |

Jacket Color Code

Stocked jacket colors vary by item.
For available jacket color, please contact our
Customer Service Department:
800-245-4964

Notes:

• 500ft put up lengths may be available, minimum quantities may apply.

*-Bifoil is an Aluminum Polyester Aluminum Tape with 100% Coverage
100% Sweep Tested, 0.3MHz to 3GHz

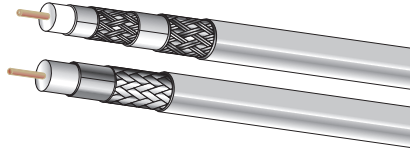
Electrical Specifications

| Catalog No. | Return Loss 100kHz-1GHz 1GHz-3GHz | Attenuation (db/100ft) | | | | | | | | | | | | |
|-----------------------------|-----------------------------------------|------------------------|--------|---------|---------|---------|---------|---------|-------|----------|-------|----------|-------|--|
| | | 5 MHz | 55 MHz | 100 MHz | 270 MHz | 400 MHz | 550 MHz | 750 MHz | 1 GHz | 1.45 GHz | 2 GHz | 2.25 GHz | 3 GHz | |
| Plenum RG6/U Foam FEP | >23dB >21dB | .45 | 1.6 | 2.0 | 2.9 | 4.5 | 4.9 | 6.6 | 8.0 | 10.3 | 12.6 | 13.36 | 15.42 | |

RG11 / U Type Non-Plenum & PLENUM Cables

Applications:

- CATV / MATV Non-Plenum and Plenum
- Division 27 41 33



Standard spool size, 1000ft.

| Catalog No. | NEC Type | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding & % Coverage | Jacket Type | Nom. O.D. Inches | Nom. Capacitance | Nom. VP | Nom. Imp. Ω |
|------------------------------|-----------|---------------------------------|------------------------------------|----------------------------------------------------------|--------------------------------------------|----------------------------------------|------------------------------|------------------------------------------|-------------|
| 1100 | CATV CM | 14 AWG (Solid) CCS 11.0 Ω/M' | Gas Injected PE .280 | Bonded Bifoil* +Al. Braid 61% | PVC | .405 | 16.2 pf/ft | 82% | 75Ω |
| | | | | | Connector Type "F" Type "F" Compression | Connector CN-F11ALX FS11V | Strip Tool TL-124 PS11 | Crimp/Comp Tool TL-112 CPLCCT-SS59/11 | |
| 821 | CATV CM | 14 AWG (Solid) BC 2.6 Ω/M' | Gas Injected PE .280 | Bifoil* +Al. Braid 65% | PVC | .405 | 16.2 pf/ft | 82% | 75Ω |
| | | | | | Connector Type "F" Type "F" Compression | Connector CN-F11ALX FS11V | Strip Tool TL-124 PS11 | Crimp/Comp Tool TL-112 CPLCCT-SS59/11 | |
| 1110 Flooded Burial | -- | 14 AWG (Solid) CCS 11.0 Ω/M' | Gas Injected PE .280 | Bonded Bifoil* +Al. Braid 61% Flooding | PE | .405 | 16.2 pf/ft | 82% | 75Ω |
| | | | | | Connector Type "F" Type "F" Compression | Connector CN-F11ALX FS11V | Strip Tool TL-124 PS11 | Crimp/Comp Tool TL-112 CPLCCT-SS59/11 | |
| Q821 Quad-Shield | CATV CM | 14 AWG (Solid) BC 2.6 Ω/M' | Gas Injected PE .280 | Bifoil* +Al. Braid 65% + Bifoil* +Al. Braid 55% | PVC | .405 | 16.2 pf/ft | 82% | 75Ω |
| | | | | | Connector Type "F" Type "F" Compression | Connector CN-F11ALX FS11V | Strip Tool TL-124 PS11 | Crimp/Comp Tool TL-112 CPLCCT-SS59/11 | |
| Q821F Quad-Shield Flooded | -- | 14 AWG (Solid) BC 2.6 Ω/M' | Gas Injected PE .280 | Bifoil* +Al. Braid 65% + Bifoil* +Al. Braid 55% | Polyethylene (PE) | .405 | 16.2 pf/ft | 82% | 75Ω |
| | | | | | Connector Type "F" Type "F" Compression | Connector CN-F11ALX FS11V | Strip Tool TL-124 PS11 | Crimp/Comp Tool TL-112 CPLCCT-SS59/11 | |
| 25821 | CATVP CMP | 14 AWG (Solid) BC 2.6 Ω/M' | Foam FEP .280 | Bifoil* + Alum. Braid 65% | Copolymer | .352 | 16 pf/ft | 82% | 75Ω |
| | | | | | Connector Type "F" Type "F" Compression | Connector CN-F11TFE 716SNS1P11PL-25 | Strip Tool TL-124 TL-PS1 | Crimp/Comp Tool TL-115 CPLCCT-SS59/11 | |
| 25Q821 Quad-Shield | CATVP CMP | 14 AWG (Solid) BC 2.6 Ω/M' | Foam FEP .280 | Bifoil* +Al. Braid 60% + Bifoil* +Al. Braid 40% | Copolymer | .385 | 16 pf/ft | 82% | 75Ω |
| | | | | | Connector Type "F" Type "F" Compression | Connector CN-F11TFE 716SNS1P11PL-25 | Strip Tool TL-124 TL-PS11 | Crimp/Comp Tool TL-115 TL-CCT-SS59/11 | |

Jacket Color Code

Stocked jacket colors vary by item.
For available jacket color, please contact our
Customer Service Department:
800-245-4964

Electrical Specifications

| Catalog No. | Return Loss 100kHz-1GHz 1GHz-3GHz | Attenuation (db/100ft) | | | | | | | | | | | |
|----------------------|-----------------------------------------|------------------------|--------|---------|---------|---------|---------|---------|-------|----------|---------|----------|-------|
| | | 5 MHz | 55 MHz | 100 MHz | 270 MHz | 400 MHz | 550 MHz | 750 MHz | 1 GHz | 1.45 GHz | 1.8 GHz | 2.25 GHz | 3 GHz |
| Non-Plenum RG11/U | >23dB >21dB | .38 | .92 | 1.20 | 1.92 | 2.40 | 2.85 | 3.40 | 4.05 | 5.05 | 5.90 | 6.42 | 7.76 |
| Plenum RG11/U | >23dB >21dB | .25 | 1.0 | 1.5 | 2.0 | 2.98 | 3.5 | 4.9 | 5.5 | 6.0 | 7.5 | 7.95 | 9.19 |



CATV / MATV

"F" Type Connectors

| "F" Crimp Type Connectors | |
|---------------------------|--------------------------------------|
| Catalog No. | Description |
| CN-F56ALM | RG6/U |
| CN-F56ALX | RG6/U Quad Shield |
| CN-F59TFE/WP | RG59/U West Penn Plenum |
| CN-F56TFE | RG6/U Plenum |
| CN-F56AQ | RG6/U Zinc plated with rubber O-Ring |
| CN-F59T | 75 Ohm "F" Terminator |
| CN-F11ALX | RG11/U |
| CN-F11TFE | RG11/U Plenum |



CN-F59ALM



CN-F59T

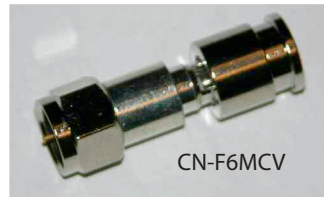


CN-F11ALX

CATV / MATV

"F" Type Compression Connectors

| "F" Type Compression Connectors | |
|---------------------------------|-------------------------------------------------|
| Catalog No. | Description |
| CN-F59MCV | Universal-RG59/U PVC, Plenum, Quad, Quad Plenum |
| CN-F6MCV | Universal-RG6/U PVC, Plenum, Quad, Quad Plenum |
| FS11V | RG11/U, Quad-Shield Plenum |
| 716SNS1P11PL-25 | RG11 Plenum with 7/16" Nut |



CN-F6MCV

CATV / MATV

Assorted Adaptors

| "F" Type Barrel and Adaptors | |
|------------------------------|-------------------------------------|
| Catalog No. | Description |
| CN-F81 | F Barrel Splice |
| CN-F81NW | F Barrel Splice with Nut and Washer |
| CN-F71 | F Male to Male Adapter |
| CN-ADP100 | "F" Female to "F" Push on |
| CN-ADP101 | "F" Right Angle Push on |
| CN-ADP102 | "F" Right Angle (F to M) |
| CN-ADP103 | RCA M to "F" Female |
| CN-ADP106 | RCA F to "F" Male |



CN-F81



CN-ADP106



CN-F81NW



CN-ADP103



CN-ADP102



CN-F71



CN-ADP100

CATV / MATV Splitters

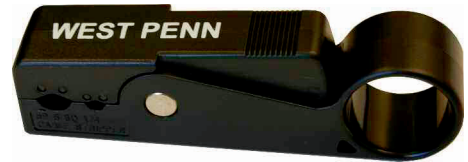
| Splitters | |
|-------------|----------------------|
| Catalog No. | Description |
| GHS-2 | 2 Way Splitter-1 GHZ |
| GHS-4 | 4 Way Splitter-1 GHZ |
| GHS-8 | 8 Way Splitter-1 GHZ |



GHS-8

CATV / MATV Strip Tools

| Stripping Tools | |
|-----------------|-------------------------------------------|
| Catalog No. | Description |
| TL-7502 | 2 Cut Tool - RG59, RG6, RG58 |
| TL-124 | 3 Cut Tool RG8, RG11, RG213 |
| TL-CSST | Compression Strip Tool - 2 Cut RG59 & RG6 |
| PS11 | Compression Strip Tool RG11/U |
| TL-59-6 | Miniature Strip Tool RG59 and 6 |



TL-CSST

| Replacement Blades | |
|--------------------|-------------|
| Catalog No. | Description |
| TL-133 | TL-7502 |

CATV / MATV Crimp / Compression Tools

| Tools Crimp and Compression | |
|-----------------------------|--------------------------------------------|
| Catalog No. | Description |
| TL-111 | RG59/RG6 |
| TL-112 | RG6/RG11 (CN-F11ALX) |
| TL-115 | Plenum RG11 |
| TL-SNS11 | Compression Tool RG11-CN-FSNS-11 |
| CPLCCT-SS59/11 | Compression Tool RG11-CN-FS11V & CN-FS11PL |
| TL-548G | Alternate Compression Tool |



TL-115

Notes:

• TL-548G - Accepts RG59, RG6, & RG11

Crimp Tool Die Sizes: Inches

TL-111: .324, .359

TL-112: .100, .322, .448

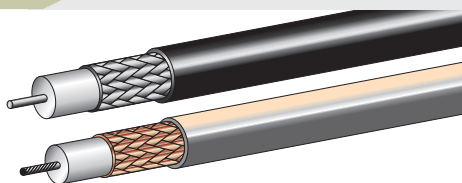
TL-115: .068, .100, .324, .384



RF 50 Ohm COAXIAL CABLES

RF Transmission 50 Ohm Coaxial

RG58/U - RG58A/U - RG8/U - RG213/U & RG8x/U Type



Applications:

- RF Transmission
- Broadcast Transmission
- Wireless Communication

Standard spool size, 1000ft.

| Catalog No. | NEC Type | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding & % Coverage | Jacket Type | Nom. O.D. Inches | Nom. Capacitance | Nom. VP | Nom. Imp. Ω |
|--------------------------------------------|----------|---------------------------------------------|------------------------------------|------------------------------------------------------------|----------------|------------------------------------------------|------------------|---------|-------------|
| 812 RG58A/U Type | CM | 20 (19x32) Tinned Copper 8.8 Ω/M' | Gas Injected PE .116 | 100% Bi-foil AL. +95% Tinned Cu Braid | PVC | .195 | 25 pf/ft | 78% | 50Ω |
| | | | | | | 50Ω BNC: CN-BM53-13 Crimp Tool: TL-105 | | | |
| 813 RG-58/U Type | CM | 20 (Solid) Tinned Copper 10.1 Ω/M' | Gas Injected PE .116 | Tinned Copper Braid 95% | PVC | .195 | 26 pf/ft | 78% | 50Ω |
| | | | | | | 50Ω BNC: CN-BM53-13 Crimp Tool: TL-105 | | | |
| 25812 RG-58/U Type Plenum | CMP | 20 (19x32) Tinned Copper 8.8 Ω/M' | Foam FEP .102 | 100% Bi-foil AL. +95% Tinned Cu Braid | Flex Plenum | .158 | 25 pf/ft | 82% | 50Ω |
| | | | | | | 50Ω BNC: CN-BM53-25 Crimp Tool: TL-105 | | | |
| 810 RG-213/U Type | CM | 12 (7x20) Bare Copper 1.9 Ω/M' | Gas Injected PE .280 | Bare Copper Braid 95% | PVC | .405 | 26 pf/ft | 80% | 50Ω |
| | | | | | | 50Ω BNC: CN-BM53-8 Crimp Tool: TL-113 | | | |
| 25810 RG-213/U Type Plenum | CMP | 12 (7x20) Bare Copper 1.9 Ω/M' | Foam FEP .280 | Bare Copper Braid 95% | Copolymer | .352 | 25 pf/ft | 80% | 50Ω |
| | | | | | | 50Ω BNC: CN25810KBNC Crimp Tool: TL-115 | | | |
| 98G8 RG-8/U Type | CM | 10AWG Solid Bare Copper .9 Ω/M' | Gas Injected PE .286 | 100% Bonded Bi- foil AL. + 90% Tinned Cu Braid | PVC | .405 | 24.5 pf/ft | 84% | 50Ω |
| | | | | | | 50Ω BNC: CN-BM98G8 Crimp Tool: TL-RG8-10G | | | |
| 2598G8 RG-8/U Type Plenum | CMP | 10AWG Solid Bare Copper .9 Ω/M' | Foam FEP .280 | 100% Bonded Bi- foil AL. + 90% Tinned Cu Braid | Copolymer | .360 | 25 pf/ft | 80% | 50Ω |
| | | | | | | 50Ω BNC: CN-BM2598G8 Crimp Tool: TL-RG8-10G | | | |
| 807X RG-8X/U Type Flexible | CM | 16 (19x29) Bare Copper 4.3 Ω/M' | Gas Injected PE .155 | 100% Bonded Bi- foil AL. + 90% Tinned Cu Braid | PVC | .242 | 25 pf/ft | 82% | 50Ω |
| | | | | | | 50Ω BNC: CN-BM53-8X Crimp Tool: TL-119 | | | |

Jacket Color Code

Stocked jacket colors vary by item.
For available jacket color, please contact our
Customer Service Department:
800-245-4964

- 500ft. lengths may be available upon request. Minimum quantities apply.
- Custom colored jackets may be available. Minimum quantities apply.

Electrical Specifications: Attenuation (db/100ft)

| CAT. NO. | 1 MHz | 10 MHz | 50 MHz | 100 MHz | 200 MHz | 400 MHz | 900 MHz | 1 GHz |
|----------|-------|--------|--------|---------|---------|---------|---------|-------|
| 812 | .5 | 1.3 | 3.2 | 4.6 | 6.8 | 10.1 | 16.7 | 18.2 |
| 813 | .6 | 1.5 | 3.5 | 4.8 | 6.9 | 10.2 | 16.8 | 18.3 |
| 25812 | .5 | 1.3 | 3.2 | 4.6 | 6.8 | 10.1 | 16.7 | 18.2 |
| 810 | .2 | .6 | 1.3 | 2.0 | 2.8 | 4.0 | 6.8 | 7.3 |
| 25810 | .2 | .6 | 1.3 | 2.0 | 2.8 | 4.0 | 6.7 | 7.2 |
| 98G8 | .1 | .5 | 1.0 | 1.4 | 1.8 | 2.6 | 4.1 | 4.4 |
| 2598G8 | .1 | .4 | 1.0 | 1.6 | 2.3 | 3.4 | 6.0 | 6.9 |
| 807X | .3 | .9 | 2.1 | 3.1 | 4.5 | 6.6 | 10.7 | |

RF Connectors

| Straight Plug Male Connectors | | | |
|-------------------------------|-------------|---------------|---------------|
| Catalog No. | 50Ω BNC | 50Ω TNC | 50Ω "N" Type |
| 812 | CN-BM53-13 | CN-TM53-1 | CN-NM53-812 |
| 25812 | CN-BM53-25 | CN-TM53-25812 | CN-NM53-25812 |
| 813 | CN-BM53-13 | CN-TM53-1 | CN-NM53-812 |
| 810 | CN-BM53-8 | CN25810KTNC | CN-NM53/110 |
| 25810 | CN25810KBNC | CN25810KTNC | CN-NM53-25810 |
| 98G8 | CN-BM98G8 | CN-TM98G8 | CN-NM98G8 |
| 2598G8 | CN-BM2598G8 | | CN-NM98G8 |
| 807X | CN-BM53-8X | CN-TM53-807 | CN-NM53-8X |



Adapters

| TNC Adapters | |
|--------------|--------------------------|
| Catalog No. | Description |
| CN-ADPTTJJ | TNC Jack to TNC Jack |
| CN-ADPTTPP | TNC Plug to TNC Plug |
| CN-ADPTTJJT | TNC Jack Tee Adapter |
| CN-ADPBTF | BNC Female to TNC Female |
| CN-ADPBTFM | BNC Male to TNC Male |
| CN-ADPBTFM | BNC Female to TNC Male |
| CN-ADPBMTF | BNC Male to TNC Female |
| CN-ADPNTFF | N Female to TNC Female |
| CN-ADPNTMM | N Male to TNC Male |
| CN-ADPNTFM | N Female to TNC Male |
| CN-ADPNMTF | N Male to TNC Female |

| "N" Type Adapters | |
|-------------------|--------------------------|
| Catalog No. | Description |
| CN-ADPNNJJ | N Jack to N Jack |
| CN-ADPNNPP | N Plug to N Plug |
| CN-ADPNNJJT | N Jack Tee Adapter |
| CN-ADPBNFF | BNC Female to "N" Female |
| CN-ADPBNMM | BNC Male to "N" Male |
| CN-ADPBNFM | BNC Female to "N" Male |
| CN-ADP807 | BNC M to "N" F |



| UHF Adapters | |
|--------------|------------------------|
| Catalog No. | Description |
| CN-ADP205 | UHF RA Male to Female |
| CN-ADP207 | Inline UHF (F to F) |
| CN-ADP805 | UHF Male to "N" Female |
| CN-ADP512 | BNC M to UHF F |
| CN-ADP500 | BNC F to UHF M |
| CN-ADP504 | BNC F to UHF F |





50 Ohm Coaxial Assemblies

| BNC Assemblies | | |
|-----------------|------------------------------------------------------|------------------------|
| Catalog No. | Description | Footage |
| CN-812BMBM-xx | RG58A/U Assembly Non-Plenum BNC Male to BNC Male | Replace xx: 1 to 50ft |
| CN-25812BMBM-xx | RG58A/U Assembly Plenum BNC Male to BNC Male | Replace xx: 1 to 50ft |
| CN-807BMBM-xx | RG8x/U Flex Assembly Non-Plenum BNC Male to BNC Male | Replace xx: 1 to 100ft |
| CN-810BMBM-xx | RG213/U Assembly Non-Plenum BNC Male to BNC Male | Replace xx: 1 to 200ft |
| CN-25810BMBM-xx | RG213/U Assembly Plenum BNC Male to BNC Male | Replace xx: 1 to 200ft |
| CN-98G8BMBM-xx | RG8/U Assembly Non-Plenum BNC Male to BNC Male | Replace xx: 1 to 300ft |
| CN-2598G8BM-xx | RG8/U Assembly Plenum BNC Male to BNC Male | Replace xx: 1 to 300ft |

| N Type Assemblies | | |
|-------------------|--------------------------------------------------|------------------------|
| Catalog No. | Description | Footage |
| CN-812NMNM-xx | RG58A/U Assembly Non-Plenum N Male to N Male | Replace xx: 1 to 50ft |
| CN-25812NMNM-xx | RG58A/U Assembly Plenum N Male to N Male | Replace xx: 1 to 50ft |
| CN-807NMNM-xx | RG8x/U Flex Assembly Non-Plenum N Male to N Male | Replace xx: 1 to 100ft |
| CN-810NMNM-xx | RG213/U Assembly Non-Plenum N Male to N Male | Replace xx: 1 to 200ft |
| CN-25810NMNM-xx | RG213/U Assembly Plenum N Male to N Male | Replace xx: 1 to 200ft |
| CN-98G8NMNM-xx | RG8/U Assembly Non-Plenum N Male to N Male | Replace xx: 1 to 300ft |
| CN-2598G8NM-xx | RG8/U Assembly Plenum N Male to N Male | Replace xx: 1 to 300ft |

| Reversed Polarity SMA to RP SMA Type Assemblies | | |
|-------------------------------------------------|--------------------------------------------------------------|------------------------|
| Catalog No. | Description | Footage |
| CN-98G8RS-xxx | RG8 Non Plenum Reversed Polarity SMA Assemblies | Replace xx: 1 to 125ft |
| CN-2598G8RS-xxx | RG8 Plenum Reversed Polarity SMA Assemblies | Replace xx: 1 to 125ft |
| CN-807RSRS-xx | RG8x/U Flex Assembly Non-Plenum Reversed Polarity SMA Assemb | Replace xx: 1 to 50ft |

NOTES:

Other Cable Assemblies Configurations Can Be Special Made.
Contact 800-245-4964

Installation Tools

| Crimp Tools | |
|-------------|--------------------------|
| Catalog No. | Description |
| TL-104 | RG58 Crimp Tool |
| TL-105 | RG58/U Plenum Crimp Tool |
| TL-112 | RG8/U "N" Crimp Tool |
| TL-113 | RG8/U & RG11/U |
| TL-115 | RG8/U Plenum 25810 |
| TL-119 | RG8X/U |
| TL-RG8-10G | RG8/U - 98G8 and 2598G8 |

Crimp Tool Die Sizes: Inches

TL-104: .068, .213, .255

TL-105: .068, .178

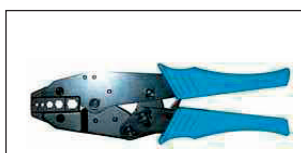
TL-112: .100, .322, .448

TL-113: .102, .359, .406

TL-115: .068, .100, .324, .384

TL-119: .068, .110, .213, .255, .324

| Strip Tools | |
|-------------|-------------------------------|
| Catalog No. | Description |
| TL-121 | 3 Blade Strip Tool RG58, RG8X |
| TL-124 | RG213 & RG8/U Strip Tool |



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SECURITY

Fire Alarm Cables

| | |
|--------------------------------------------|---------|
| Unshielded FPLR Cables | 97 |
| Unshielded FPLP Cables | 98 |
| Unshielded Fire Alarm Flexible | 99 |
| Shielded FPLR Cables | 100 |
| Shielded FPLP Cables | 101 |
| Shielded Fire Alarm Flexible | 102 |
| Addressable - Low Capacitance Cables | 103-104 |
| Local Law 5 Fire Alarm Cables | 105-106 |

Access Control Cables

| | |
|---------------------------------------|---------|
| All-In-One Composite Cables | 108 |
| Access Control Accessory Cables | 109-115 |
| RS-485 Cables | 116 |



Power-Limited Multiple Conductor / Unshielded

Applications:

Indoor for:

- Fire Alarm Circuits
- Initiating Devices
- Notification Devices
- Division 28 05 13.23

Description:

- ASTM Bare Copper
- Thermoplastic Insulation
- Twisted Pair or Cabled Construction
- Overall PVC Jacket

Rating:

- NEC Type FPLR
- (UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1666



Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R. | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|------------------------------|-----------------------------|-----------|-------------------------|------------------|----------|------------------|
| 980 | 1 Pair | 18 AWG Solid 6.5 Ω/Mft | .008 | None | .017 | .146 | FPLR | 31 pf/ft* |
| 982 | 4 | 18 AWG Solid 6.5 Ω/Mft | .008 | None | .017 | .170 | FPLR | 31 pf/ft* |
| 990 | 1 Pair | 16 AWG Solid 4.1 Ω/Mft | .008 | None | .017 | .168 | FPLR | 34 pf/ft* |
| 992 | 4 | 16 AWG Solid 4.1 Ω/Mft | .008 | None | .017 | .198 | FPLR | 34 pf/ft* |
| 994 | 1 Pair | 14 AWG Solid 2.6 Ω/Mft | .012 | None | .017 | .210 | FPLR | 34 pf/ft* |
| 700 | 4 | 14 AWG Solid 2.6 Ω/Mft | .012 | None | .017 | .246 | FPLR | 34 pf/ft* |
| 998 | 1 Pair | 12 AWG Solid 1.8 Ω/Mft | .012 | None | .017 | .244 | FPLR | 40 pf/ft* |

| Insulation Color Code | |
|-----------------------|-------|
| Primary Color Code | |
| 1. | Black |
| 2. | Red |
| 3. | Brown |
| 4. | Blue |

| Jacket Color Code |
|------------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |

* Capacitance between conductors.

Notes:

- Selected Indoor/Outdoor **Aquaseal Water Resistant® Versions**, see Aquaseal Section
- Selected Halogen Free Versions
- 500ft put up lengths may be available, minimum quantities may apply.



FIRE ALARM CABLES

UNSHIELDED PLENUM

Power-Limited / Unshielded



Applications:

- Indoor for: Plenum Spaces
- Fire Alarm Circuits
- Initiating Devices
- Notification Devices
- Division 28 05 13.23

Description:

- ASTM Bare Copper
- Polymer Alloy Insulation
- Twisted Pair or Cabled Construction
- Flexible Plenum Jacket

Rating:

- NEC Type FPLP
- (UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test

Standard spool size 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|-----------|-------------------------|------------------|----------|------------------|
| 60980B | 1 Pair | 18 AWG Solid 6.5 Ω/Mft | .008 | None | .015 | .144 | FPLP | 31 pf/ft* |
| 60982B | 4 | 18 AWG Solid 6.5 Ω/Mft | .008 | None | .015 | .166 | FPLP | 31 pf/ft* |
| 60991B | 1 Pair | 16 AWG Solid 4.1 Ω/Mft | .008 | None | .015 | .164 | FPLP | 34 pf/ft* |
| 60164B | 4 | 16 AWG Solid 4.1 Ω/Mft | .008 | None | .015 | .191 | FPLP | 34 pf/ft* |
| 60993B | 1 Pair | 14 AWG Solid 2.6 Ω/Mft | .010 | None | .015 | .198 | FPLP | 33 pf/ft* |
| 60700B | 4 | 14 AWG Solid 2.6 Ω/Mft | .010 | None | .015 | .236 | FPLP | 33 pf/ft* |
| 60995B | 1 Pair | 12 AWG Solid 1.8 Ω/Mft | .010 | None | .015 | .239 | FPLP | 40 pf/ft* |

| Insulation Color Code | |
|-----------------------|-------|
| Primary Color Code | |
| 1. | Black |
| 2. | Red |
| 3. | Brown |
| 4. | Blue |

Notes:

- Plenum Installation Precautions see Technical Reference Section, Page 130.
- 500ft put up lengths may be available, minimum quantities may apply.

Tracer Marks:

Available Upon Request: Minimum Quantities Apply.

| Jacket Color Code |
|---------------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |

FIRE ALARM CABLES

UNSHIELDED STRANDED CONDUCTOR

Power-Limited Multiple Conductor / Unshielded



Applications:

- Indoor for:
- Fire Alarm Circuits
- Initiating Devices
- Notification Devices
- Division 28 05 13.23

Description:

- ASTM Stranded Bare Copper
- Thermoplastic Insulation Twisted Pair or Cabled Construction
- Overall PVC Jacket

Rating:

- NEC Type FPLR
- (UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1666

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|-----------|-------------------------|------------------|----------|------------------|
| 990S | 1 Pair | 16 AWG Strd. 4.1 Ω/Mft | .009 | None | .017 | .182 | FPLR | 34 pf/ft* |
| 994S | 1 Pair | 14 AWG Strd. 2.6 Ω/Mft | .010 | None | .017 | .224 | FPLR | 33 pf/ft* |
| 998S | 1 Pair | 12 AWG Strd. 1.8 Ω/Mft | .010 | None | .017 | .260 | FPLR | 40 pf/ft* |

Stranded Conductor Fire Alarm Cables

Plenum Power-Limited / Unshielded

Stranded Conductors



Applications:

- Indoor for:
- Fire Alarm Circuits
- Initiating Devices
- Notification Devices
- Division 28 05 13.23

Description:

- ASTM Stranded Bare Copper
- Polymer Alloy Insulation
- Twisted Pair or Cabled Construction
- Flexible Plenum Jacket

Rating:

- NEC Type FPLP
- (UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|------------------------------|-----------------------------|-----------|-------------------------|------------------|----------|------------------|
| 60991BS | 1 Pair | 16 AWG Stranded 4.1 Ω/Mft | .008 | None | .015 | .180 | FPLP | 34 pf/ft* |
| 60993BS | 1 Pair | 14 AWG Stranded 2.6 Ω/Mft | .010 | None | .015 | .210 | FPLP | 33 pf/ft* |
| 60995BS | 1 Pair | 12 AWG Stranded 1.8 Ω/Mft | .010 | None | .015 | .254 | FPLP | 40 pf/ft* |

| Insulation Color Code |
|-----------------------|
| Primary Color Code |
| 1. Black |
| 2. Red |

| Jacket Color Code |
|---------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |

* Capacitance between conductors.



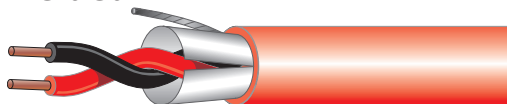
Power-Limited Multiple Conductor/ Shielded

Applications: Description:

Indoor for:

- Fire Alarm Circuits
- Initiating Devices
- Notification Devices
- Division 28 05 13.23

- ASTM Bare Copper
- Thermoplastic Insulation
- Twisted Pair or Cabled Construction
- Overall Shield 100% Coverage of Aluminum Polyester Foil with 24 AWG Tinned Copper Drain Wire
- Overall PVC Jacket



Rating:

- NEC Type FPLR
- (UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1666

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|------------------|-------------------------|------------------|----------|--------------------------|
| 975 | 1 Pair | 18 AWG Solid 6.5 Ω/Mft | .008 | Al. Foil 100% | .017 | .150 | FPLR | 66 pf/ft* 119 pf/ft** |
| 977 | 4 | 18 AWG Solid 6.5 Ω/Mft | .008 | Al. Foil 100% | .017 | .180 | FPLR | 66 pf/ft* 119 pf/ft** |
| 991 | 1 Pair | 16 AWG Solid 4.1 Ω/Mft | .008 | Al. Foil 100% | .017 | .172 | FPLR | 77 pf/ft* 139 pf/ft** |
| 993 | 4 | 16 AWG Solid 4.1 Ω/Mft | .008 | Al. Foil 100% | .017 | .200 | FPLR | 77 pf/ft* 139 pf/ft** |
| 995 | 1 Pair | 14 AWG Solid 2.6 Ω/Mft | .012 | Al. Foil 100% | .017 | .215 | FPLR | 84 pf/ft* 151 pf/ft** |
| 999 | 1 Pair | 12 AWG Solid 1.8 Ω/Mft | .012 | Al. Foil 100% | .017 | .248 | FPLR | 96 pf/ft* 173 pf/ft** |

| Insulation Color Code | |
|-----------------------|-------|
| Primary Color Code | |
| 1. | Black |
| 2. | Red |
| 3. | Brown |
| 4. | Blue |

| Jacket Color Code |
|------------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |

* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield

Notes:

- Selected Indoor/Outdoor **Aquaseal Water Resistant®** Versions, see Aquaseal Section
- Selected Halogen Free Versions, Page 128
- Select Items are Packaged in our Advantage Box
- Orange Rip Cord Under Jacket
- 500ft put up lengths may be available, minimum quantities may apply.



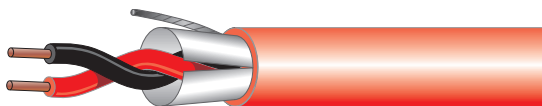
Tracer Marks:

Available Upon Request: Minimum Quantities Apply

FIRE ALARM CABLES

SHIELDED PLENUM

Power-Limited / Shielded



Applications:

- Indoor for: Plenum Spaces
- Fire Alarm Circuits
- Initiating Devices
- Notification Devices
- Division 28 05 13.23

Description:

- ASTM Bare Copper
- Polymer Alloy Insulation
- Twisted Pair or Cabled Construction
- Overall Shield 100% Coverage of Aluminum Polyester Foil with 24 AWG Tinned Copper Drain Wire
- Flexible Plenum Jacket

Rating:

- NEC Type FPLP
- (UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|---------------|-------------------------|------------------|----------|--------------------------|
| 60975B | 1 Pair | 18 AWG Solid 6.5 Ω/Mft | .008 | Al. Foil 100% | .015 | .148 | FPLP | 66 pf/ft* 119 pf/ft** |
| 60977B | 4 | 18 AWG Solid 6.5 Ω/Mft | .008 | Al. Foil 100% | .015 | .170 | FPLP | 66 pf/ft* 119 pf/ft** |
| 60990B | 1 Pair | 16 AWG Solid 4.1 Ω/Mft | .008 | Al. Foil 100% | .015 | .168 | FPLP | 77 pf/ft* 139 pf/ft** |
| 603164B | 4 | 16 AWG Solid 4.1 Ω/Mft | .008 | Al. Foil 100% | .015 | .195 | FPLP | 77 pf/ft* 139 pf/ft** |
| 60992B | 1 Pair | 14 AWG Solid 2.6 Ω/Mft | .010 | Al. Foil 100% | .015 | .202 | FPLP | 84 pf/ft* 151 pf/ft** |
| 60994B | 1 Pair | 12 AWG Solid 1.8 Ω/Mft | .010 | Al. Foil 100% | .015 | .243 | FPLP | 96 pf/ft* 173 pf/ft** |

| Insulation Color Code | |
|-----------------------|-------|
| Primary Color Code | |
| 1. | Black |
| 2. | Red |
| 3. | Brown |
| 4. | Blue |

* Capacitance between conductors.
** Capacitance between one conductor and the other connected to the shield

Notes:

- Plenum Installation Precautions, see Technical Reference, Page 130
- 500ft put up lengths may be available, minimum quantities may apply.

| Jacket Color Code |
|------------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |



FIRE ALARM CABLES

SHIELDED STRANDED CONDUCTOR

Power-Limited Multiple Conductor/ Shielded



Applications:

- Indoor for:
- Fire Alarm Circuits
- Initiating Devices
- Notification Devices
- Division 28 05 13.23

Description:

- ASTM Stranded Bare Copper
- Thermoplastic Insulation
- Twisted Pair
- Overall Shield 100% Coverage of Aluminum Polyester Foil with 24 AWG Tinned Copper Drain Wire
- Flexible Plenum Jacket

Rating:

- NEC Type FPLR
- (UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1666

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|------------------------------|-----------------------------|------------------|-------------------------|------------------|----------|------------------|
| 995S | 1 Pair | 14 AWG Stranded 2.6 Ω/Mft | .012 | Al. Foil 100% | .017 | .232 | FPLR | |
| 999S | 1 Pair | 12 AWG Stranded 1.8 Ω/Mft | .012 | Al. Foil 100% | .017 | .264 | FPLR | |

| Insulation Color Code | |
|-----------------------|-------|
| Primary Color Code | |
| 1. | Black |
| 2. | Red |

Notes:

- Select Items are Packaged in our Advantage Box
- Orange Rip Cord Under Jacket
- 500ft put up lengths may be available, minimum quantities may apply.

Plenum Power-Limited / Shielded



Applications:

- Indoor for: Plenum Spaces
- Fire Alarm Circuits
- Initiating Devices
- Notification Devices
- Division 28 05 13.23

Description:

- ASTM Stranded Bare Copper
- Polymer Alloy Insulation
- Twisted Pair
- Overall Shield 100% Coverage of Aluminum Polyester Foil with 24 AWG Tinned Copper Drain Wire
- Flexible Plenum Jacket

Rating:

- NEC Type FPLP
- (UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test

Standard spool size, 1000ft.

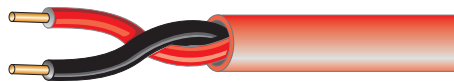
| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|------------------------------|-----------------------------|------------------|-------------------------|------------------|----------|--------------------------|
| 60990BS | 1 Pair | 16 AWG Stranded 4.1 Ω/Mft | .008 | Al. Foil 100% | .015 | .174 | FPLP | 77 pf/ft* 139 pf/ft** |
| 60992BS | 1 Pair | 14 AWG Stranded 2.6 Ω/Mft | .010 | Al. Foil 100% | .015 | .210 | FPLP | 84 pf/ft* 152 pf/ft** |
| 60994BS | 1 Pair | 12 AWG Stranded 1.8 Ω/Mft | .010 | Al. Foil 100% | .015 | .249 | FPLP | 96 pf/ft* 173 pf/ft** |

Notes:

- Plenum Installation Precautions, see Technical Reference.
- 500ft put up lengths may be available, minimum quantities may apply.

- * Capacitance between conductors.
- ** Capacitance between one conductor and the other connected to the shield.

Addressable Systems / Data Cable



Applications:

- Indoor for:
- Fire Alarm Circuits
- Initiating Devices
- Notification Devices
- Addressable Fire Systems
- Digital Audio Loops
- Division 28 05 13.23

Description:

- ASTM Bare Copper
- Polyolefin Insulation
- Short Overall Twist Lengths
- Unshielded Construction
- Overall PVC Jacket

Rating:

- NEC Type FPLR
- (UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1666

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|------------------------------|-----------------------------|-----------|-------------------------|------------------|----------|-------------------|
| D980 | 1 Pair | 18 AWG Solid 6.5 Ω/Mft | .015 | None | .030 | .196 | FPLR | 16 pf/ft* 105Ω |
| D990 | 1 Pair | 16 AWG Solid 4.1 Ω/Mft | .015 | None | .030 | .223 | FPLR | 17 pf/ft* 105Ω |

Power-Limited / Shielded Addressable Systems / Data Cable



Description:

- ASTM Bare Copper
- Polyolefin Insulation
- Short Overall Twist Length
- Overall Shield 100% Coverage of Aluminum Polyester Foil with 24 AWG TC Drain Wire
- Overall PVC Jacket

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|------------------------------|-----------------------------|---------------|-------------------------|------------------|----------|-------------------------|
| D975 | 1 Pair | 18 AWG Solid 6.5 Ω/Mft | .015 | Al. Foil 100% | .035 | .223 | FPLR | 25 pf/ft* 45 pf/ft** |
| D991 | 1 Pair | 16 AWG Solid 4.1 Ω/Mft | .015 | Al. Foil 100% | .035 | .245 | FPLR | 30 pf/ft* 54 pf/ft** |
| D995 | 1 Pair | 14 AWG Solid 2.6 Ω/Mft | .020 | Al. Foil 100% | .035 | .281 | FPLR | 30 pf/ft* 54 pf/ft** |

| Insulation Color Code |
|-----------------------|
| Primary Color Code |
| 1. Black |
| 2. Red |

| Jacket Color Code |
|------------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |

* Capacitance between conductors.
** Capacitance between one conductor and the other connected to the shield



Power-Limited / Unshielded



Applications:

- Indoor for: Plenum Spaces
- Fire Alarm Circuits
- Initiating Devices
- Notification Devices
- Addressable Fire Systems
- Digital Audio Loops
- Division 28 05 13.23

Description:

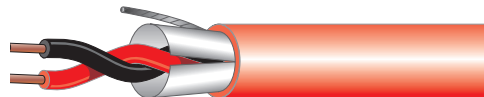
- ASTM bare copper
- Teflon Insulation
- Twisted Pair Construction
- Flexible Plenum Jacket

Rating:

- NEC Type FPLP
- (UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|-----------|-------------------------|------------------|----------|----------------------|
| D60980 | 1 Pair | 18 AWG Solid 6.5 Ω/Mft | .012 | None | .015 | .160 | FPLP | 16 pf/ft 105 Ohms |
| D60991 | 1 Pair | 16 AWG Solid 4.1 Ω/Mft | .012 | None | .015 | .181 | FPLP | 17 pf/ft |

Fire Alarm Cables Power-Limited / Shielded



Plenecon II® Data Cable

Description:

- ASTM Bare Copper
- Teflon Insulation
- Twisted Pair Construction
- Overall Shield 100% Coverage of Aluminum Polyester Foil with 24 AWG TC Drain Wire
- Flexible Plenum Jacket

Rating:

- NEC Type FPLP
- (UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|---------------|-------------------------|------------------|----------|-------------------------|
| D60975 | 1 Pair | 18 AWG Solid 6.5 Ω/Mft | .012 | Al. Foil 100% | .015 | .165 | FPLP | 25 pf/ft* 45 pf/ft** |
| D60990 | 1 Pair | 16 AWG Solid 4.1 Ω/Mft | .012 | Al. Foil 100% | .015 | .188 | FPLP | 30 pf/ft* 54 pf/ft** |

Insulation Color Code

Primary Color Code

1. Black
2. Red

Jacket Color Code

Stocked jacket colors vary by item.
For available jacket color, please contact our Customer Service Department:
800-245-4964

* Capacitance between conductors.
** Capacitance between one conductor and the other connected to the shield

Notes:

- Plenum Installation Precautions, see Technical Reference, Page 130.
- 500ft put up lengths may be available, minimum quantities may apply

Local Law 5 (LL5) Power-Limited / Unshielded



Applications:

- Indoor for: Plenum Spaces
- Fire Alarm Circuits
- Initiating Devices
- Notification Devices
- Division 28 05 13.23

Description:

- ASTM Bare Copper
- Fluoropolymer
- Twisted Pair or Cabled Construction
- Unshielded
- Fluoropolymer Jacket - 150 Deg.

Rating:

- Power Limited Fire Alarm Cable also Classified for use a Fire Alarm Cable in New York City.
- NEC Type FPLP
 - (UL) Listed
 - Meets 300V Requirements as Specified in the NEC
 - Flame Rating: NFPA-262 Smoke & Flame Test

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|-----------|-------------------------|------------------|----------|------------------|
| LL5182 | 1 Pair | 18 AWG Solid 6.5 Ω/Mft | .016 | None | .026 | .205 | FPLP | 29 pf/ft* |
| LL5184 | 4 | 18 AWG Solid 6.5 Ω/Mft | .016 | None | .026 | .238 | FPLP | 29 pf/ft* |
| LL5162 | 1 Pair | 16 AWG Solid 4.1 Ω/Mft | .016 | None | .026 | .225 | FPLP | 32 pf/ft* |
| LL5164 | 4 | 16 AWG Solid 4.1 Ω/Mft | .016 | None | .026 | .265 | FPLP | 32 pf/ft* |
| LL5142 | 1 Pair | 14 AWG Solid 2.6 Ω/Mft | .016 | None | .026 | .248 | FPLP | 35 pf/ft* |
| LL5144 | 4 | 14 AWG Solid 2.6 Ω/Mft | .016 | None | .026 | .302 | FPLP | 35 pf/ft* |
| LL5122 | 1 Pair | 12 AWG Solid 1.8 Ω/Mft | .016 | None | .026 | .278 | FPLP | 45 pf/ft* |

| Insulation Color Code |
|-----------------------|
| Primary Color Code |
| 1. Black |
| 2. Red |
| 3. Brown |
| 4. Blue |

* Capacitance between conductors.

Notes:

- LL5 Cables are packaged on wooden reels.
- 500ft put up lengths may be available, minimum quantities may apply.

| Jacket Color Code |
|---------------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |



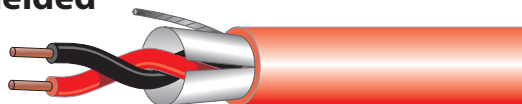
Local Law 5 (LL5) Power Limited / Shielded

Applications:

- Indoor for:
- Plenum Spaces
- Fire Alarm Circuits
- Initiating Devices
- Notification Devices
- Division 28 05 13.23

Description:

- ASTM Bare Copper
- Fluoropolymer
- Twisted Pair or Cabled Construction
- Overall Shield 100% Coverage of Aluminum Polyester Foil with Tinned Copper Drain Wire
- Fluoropolymer Jacket



Rating:

Power Limited Fire Alarm Cable also Classified for use as Fire Alarm Cable in New York City.

- NEC Type FPLP
- (UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|---------------|-------------------------|------------------|----------|--------------------------|
| LL5182SH | 1 Pair | 18 AWG Solid 6.5 Ω/Mft | .016 | Al. Foil 100% | .026 | .210 | FPLP | 54 pf/ft* 97 pf/ft** |
| LL5184SH | 4 | 18 AWG Solid 6.5 Ω/Mft | .016 | Al. Foil 100% | .026 | .245 | FPLP | 54 pf/ft* 97 pf/ft** |
| LL5162SH | 1 Pair | 16 AWG Solid 4.1 Ω/Mft | .016 | Al. Foil 100% | .026 | .230 | FPLP | 61 pf/ft* 110 pf/ft** |
| LL5164SH | 4 | 16 AWG Solid 4.1 Ω/Mft | .016 | Al. Foil 100% | .026 | .272 | FPLP | 61 pf/ft* 110 pf/ft** |
| LL5142SH | 1 Pair | 14 AWG Solid 2.6 Ω/Mft | .016 | Al. Foil 100% | .026 | .258 | FPLP | 84 pf/ft* 151 pf/ft** |
| LL5122SH | 1 Pair | 12 AWG Solid 1.8 Ω/Mft | .016 | Al. Foil 100% | .026 | .285 | FPLP | 96 pf/ft* 173 pf/ft** |

| Insulation Color Code | |
|-----------------------|-------|
| Primary Color Code | |
| 1. | Black |
| 2. | Red |
| 3. | Brown |
| 4. | Blue |

- * Capacitance between conductors.
- ** Capacitance between one conductor and the other connected to the shield

Notes:

- LL5 Cables are packaged on wooden reels.
- 500ft put up lengths may be available, minimum quantities may apply.

| Jacket Color Code |
|------------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |

Aquaseal® Water Resistant Cables

Superior UL-Rated Cables for Outdoor In-Conduit & Direct Burial Applications

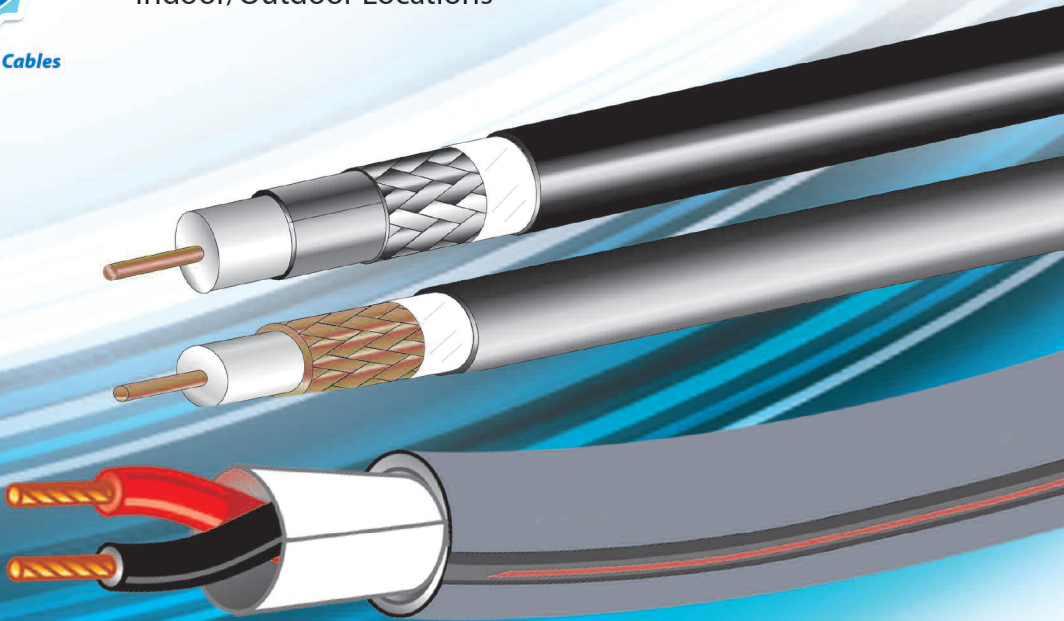
Aquaseal®



Water Resistant Cables

Aquaseal® Fire Alarm Cables

- Unshielded and Shielded
- In-Conduit and Direct Burial
- Indoor/Outdoor Locations

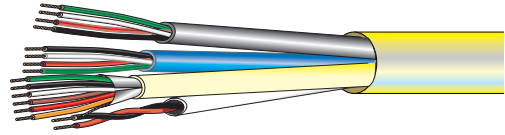


Access Control • Audio • Communications • Fire Alarm • Intercom • Video

Composite Access Control Cables

Applications:

- Access Control Systems
- Division 28 05 13.16



Standard spool size, 1000ft.

| Catalog No. | Cable Types | Application | NEC Type | Nom. Jacket O.D. & Color |
|-------------|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------|--------------------------|
| AC1822 | 2 Cond. 22 AWG 4 Cond. 18 AWG 4 Cond. 22 AWG 6 Cond. 22 AWG Shielded | Door Contact Lock Power Request to Exit Card Reader | CM | .440" |
| AC251822B | 2 Cond. 22 AWG 4 Cond. 18 AWG 4 Cond. 22 AWG 6 Cond. 22 AWG Shielded | Door Contact Lock Power Request to Exit Card Reader | CMP | .440" |
| AC251822B3P | 2 Cond. 22 AWG 4 Cond. 18 AWG 4 Cond. 22 AWG 3 Pair 22 AWG Shielded | Door Contact Lock Power Request to Exit Card Reader | CMP | .440" |
| AC253PSH | 2 Cond. 22 AWG Shielded 4 Cond. 18 AWG Shielded 4 Cond. 22 AWG Shielded 3 Pair 22 AWG Shielded | Door Contact Lock Power Request to Exit Card Reader | CMP | .460" |
| AQC1822 | 2 Cond. 22 AWG 4 Cond. 18 AWG 4 Cond. 22 AWG 3 Pair 22 AWG Shielded | Door Contact Lock Power Request to Exit Card Reader | CM | .460" |



All Aquaseal® Design

| Cable Types | Conductor Colors | Jacket Colors |
|-----------------|-----------------------------------------------------------|---------------|
| Door Contact | 1. Black, 2. Red | White |
| Lock Power | 1. Black, 2. Red, 3. White, 4. Green | Gray |
| Request to Exit | 1. Black, 2. Red, 3. White, 4. Green | Blue |
| Card Reader | 1. Black, 2. Red, 3. White, 4. Green 5. Brown, 6. Blue | Orange |

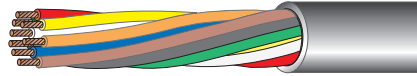
Notes:

Standard Spool size, 1000ft, spools are one piece, but lengths may vary +/- 10%
PE - Polyethylene Bifoil is an Aluminum Polyester Aluminum Tape with 100% coverage 100% sweep tested.

ACCESS CONTROL CABLES

NON-PLENUM READER CABLES

Multiple Conductor 22 AWG / Unshielded



Applications:

- Indoor for:
- Reader Cables
- Low Voltage Power
- Instrumentation and Control
- Division 28 05 13.16

Description:

- ASTM Bare Copper
- Thermoplastic Insulation
- Cabled Construction
- Overall PVC Jacket

Rating:

- NEC Type CMR
- (UL)-C(UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1666

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R. | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|------------------------------|-----------------------------|-----------|-------------------------|------------------|----------|------------------|
| 855 | 5 | 22 AWG (7x30) 17 Ω/Mft | .007 | None | .017 | .150 | CMR | -- |
| 270 | 6 | 22 AWG (7x30) 17 Ω/Mft | .007 | None | .017 | .163 | CMR | -- |
| 271 | 8 | 22 AWG (7x30) 17 Ω/Mft | .007 | None | .017 | .176 | CMR | -- |
| 272 | 10 | 22 AWG (7x30) 17 Ω/Mft | .007 | None | .017 | .218 | CMR | -- |
| 274 | 15 | 22 AWG (7x30) 17 Ω/Mft | .007 | None | .017 | .251 | CMR | -- |

Insulation Color Code

Primary Color Code

| | | |
|-----------|-----------------|-----------------|
| 1. Black | 8. Yellow | 15. White/Green |
| 2. Red | 9. Purple | |
| 3. White | 10. Gray | |
| 4. Green | 11. Pink | |
| 5. Brown | 12. Tan | |
| 6. Blue | 13. White/Black | |
| 7. Orange | 14. White/Red | |

Jacket Color Code

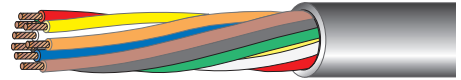
Stocked jacket colors vary by item.
For available jacket color, please contact our
Customer Service Department:
800-245-4964

Notes:

- Selected Plenum Versions, see - Plenum Section.
- Cables are packaged in our Advantage Box. Larger AWG sized cables and Higher Paired cables may be on a reel.
- Rip Cord
- 500ft put up lengths may be available, minimum quantities may apply.



18 AWG Multiple Conductor / Unshielded



Applications:

- Reader Cables
- Audio Circuits
- Low Voltage Power
- Instrumentation and Control
- Division 28 05 13.16

Description:

- ASTM Bare Copper
- Thermoplastic Insulation
- Cabled Construction
- Overall PVC Jacket

Rating:

- NEC Type CMR
- (UL)-C(UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1666

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R. | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|------------------------------|-----------------------------|-----------|-------------------------|------------------|----------|------------------|
| 280 | 5 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | None | .017 | .205 | CMR | -- |
| 281 | 7 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | None | .017 | .225 | CMR | -- |
| 282 | 9 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | None | .017 | .263 | CMR | -- |
| 283 | 12 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | None | .017 | .298 | CMR | -- |
| 284 | 15 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | None | .020 | .348 | CMR | -- |

| Insulation Color Code | | |
|-----------------------|-----------------|-----------------|
| Primary Color Code | | |
| 1. Black | 8. Yellow | 15. White/Green |
| 2. Red | 9. Purple | |
| 3. White | 10. Gray | |
| 4. Green | 11. Pink | |
| 5. Brown | 12. Tan | |
| 6. Blue | 13. White/Black | |
| 7. Orange | 14. White/Red | |

Notes:

- Selected Plenum Versions, see - Plenum Section.
- Cables are packaged in our Advantage Box, Larger AWG sized cables and Higher Paired cables may be on a reel.
- Rip Cord
- 500ft put up lengths may be available, minimum quantities may apply.

Jacket Color Code

Stocked jacket colors vary by item.
For available jacket color, please contact our Customer Service Department:
800-245-4964

Multiple Conductor / Unshielded



Applications:

- Reader Cables Plenum Cables
- Audio Circuits
- Low Voltage Power
- Instrumentation and Control
- Division 28 05 13.16

Description:

- ASTM Bare Copper
- Polymer Alloy Insulation
- Cabled Construction
- Overall Flex Plenum Jacket

Rating:

- NEC Type CMP
- (UL)-C(UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R. | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|------------------------------|-----------------------------|-----------|-------------------------|------------------|----------|------------------|
| 25855B | 5 | 22 AWG (7x30) 17 Ω/Mft | .007 | None | .015 | .146 | CMP | -- |
| 25270B | 6 | 22 AWG (7x30) 17 Ω/Mft | .007 | None | .015 | .157 | CMP | -- |
| 25271B | 8 | 22 AWG (7x30) 17 Ω/Mft | .007 | None | .015 | .172 | CMP | -- |
| 25272B | 10 | 22 AWG (7x30) 17 Ω/Mft | .007 | None | .015 | .213 | CMP | -- |
| 25273B | 12 | 22 AWG (7x30) 17 Ω/Mft | .007 | None | .015 | .220 | CMP | -- |
| 25274B | 15 | 22 AWG (7x30) 17 Ω/Mft | .007 | None | .015 | .246 | CMP | -- |
| 25186B | 6 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | None | .015 | .216 | CMP | -- |
| 25188B | 8 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | None | .015 | .235 | CMP | -- |

| Insulation Color Code | | |
|-----------------------|-----------------|-----------------|
| Primary Color Code | | |
| 1. Black | 8. Yellow | 15. White/Green |
| 2. Red | 9. Purple | |
| 3. White | 10. Gray | |
| 4. Green | 11. Pink | |
| 5. Brown | 12. Tan | |
| 6. Blue | 13. White/Black | |
| 7. Orange | 14. White/Red | |

| Jacket Color Code |
|------------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |

Notes:

- Cables are packaged in our Advantage Box. Larger AWG sized cables and Higher Paired cables may be on a reel.
- Rip Cord
- 500ft put up lengths may be available, minimum quantities may apply.



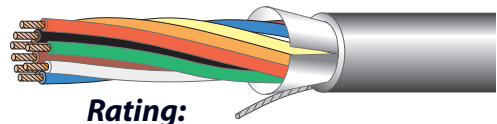
22 AWG Multiple Conductor / Overall Shielded

Applications:

- Indoor for:
- Reader Cables
- Audio Circuits
- Low Voltage Power
- Access Control - Reader
- Division 28 05 13.16

Description:

- ASTM Bare Copper
- Thermoplastic Insulation
- Overall Shield 100% Coverage of Aluminum Polyester Foil with 24 AWG Strd. Tinned Copper Drain Wire
- Cabled Construction
- Overall PVC Jacket



Rating:

- NEC Type CMR
- (UL)-C(UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1666

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R. | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|------------------------------|-----------------------------|------------------|-------------------------|------------------|----------|-------------------------|
| 3241 | 4 | 22 AWG (7x30) 17 Ω/Mft | .007 | Al. Foil 100% | .017 | .142 | CMR | 55 pf/ft* 99 pf/ft** |
| 3855 | 5 | 22 AWG (7x30) 17 Ω/Mft | .007 | Al. Foil 100% | .017 | .154 | CMR | 55 pf/ft* 99 pf/ft** |
| 3270 | 6 | 22 AWG (7x30) 17 Ω/Mft | .007 | Al. Foil 100% | .017 | .167 | CMR | 55 pf/ft* 99 pf/ft** |
| 3271 | 8 | 22 AWG (7x30) 17 Ω/Mft | .007 | Al. Foil 100% | .017 | .182 | CMR | 55 pf/ft* 99 pf/ft** |
| 3272 | 10 | 22 AWG (7x30) 17 Ω/Mft | .010 | Al. Foil 100% | .017 | .222 | CMR | 55 pf/ft* 99 pf/ft** |
| 3274 | 15 | 22 AWG (7x30) 17 Ω/Mft | .010 | Al. Foil 100% | .020 | .255 | CMR | 55 pf/ft* 99 pf/ft** |

| Insulation Color Code | | |
|-----------------------|-----------------|-----------------|
| Primary Color Code | | |
| 1. Black | 8. Yellow | 15. White/Green |
| 2. Red | 9. Purple | |
| 3. White | 10. Gray | |
| 4. Green | 11. Pink | |
| 5. Brown | 12. Tan | |
| 6. Blue | 13. White/Black | |
| 7. Orange | 14. White/Red | |

| Jacket Color Code |
|------------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |

* Capacitance between conductors.
** Capacitance between one conductor and the other connected to the shield



Notes:

- Selected Plenum Versions, see Plenum Section
- Selected Indoor/Outdoor [Aquaseal Water Resistant®](#) Versions, see Aquaseal Catalog Section, Pages 119-130
- Cables are packaged in our Advantage Box. Larger AWG sized cables and Higher Paired cables may be on a reel.
- Rip Cord
- 500ft put up lengths may be available, minimum quantities may apply.

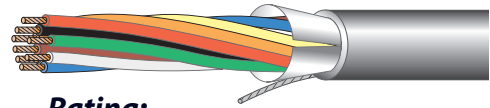
Multiple Conductor 20 & 18 AWG / Overall Shielded

Applications:

- Reader Cable
- Audio Circuits
- Low Voltage Power
- Instrumentation and Control
- Division 28 05 13.16

Description:

- ASTM Bare Copper
- Thermoplastic Insulation
- Overall shield 100% Coverage of Aluminum Polyester Foil with 24 AWG Strd. Tinned Copper Drain Wire
- Cabled Construction
- Overall PVC Jacket



Rating:

- NEC Type CMR
- (UL)-C(UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1666

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R. | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|------------------------------|-----------------------------|---------------|-------------------------|------------------|----------|--------------------------|
| 3011 | 4 | 20 AWG (7x28) 10.5 Ω/Mft | .008 | Al. Foil 100% | .015 | .163 | CMR | 60 pf/ft* 108 pf/ft** |
| 3262 | 5 | 20AWG (7x28) 10.5 Ω/Mft | .008 | Al. Foil 100% | .015 | .179 | CMR | 60 pf/ft* 108 pf/ft** |
| 3263 | 7 | 20 AWG (7x28) 10.5 Ω/Mft | .008 | Al. Foil 100% | .015 | .198 | CMR | 60 pf/ft* 108 pf/ft** |

* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield.

Multiple Conductor 18 AWG / Overall Shielded

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R. | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|------------------------------|-----------------------------|---------------|-------------------------|------------------|----------|--------------------------|
| 3280 | 5 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | Al. Foil 100% | .017 | .209 | CMR | 68 pf/ft* 122 pf/ft** |
| 3021 | 6 | 18 AWG (7x26) 6.6 Ω/Mft | .008 | Al. Foil 100% | .017 | .225 | CMR | 68 pf/ft* 122 pf/ft** |
| 3281 | 7 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | Al. Foil 100% | .017 | .230 | CMR | 68 pf/ft* 122 pf/ft** |

| Insulation Color Code | |
|-----------------------|-----------|
| Primary Color Code | |
| 1. Black | 7. Orange |
| 2. Red | |
| 3. White | |
| 4. Green | |
| 5. Brown | |
| 6. Blue | |

| Jacket Color Code |
|------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |



* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield.

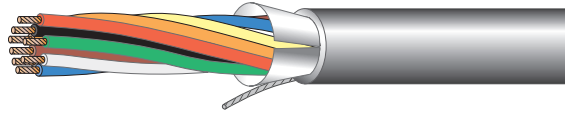
Notes:

- Orange Rip Cord
- Selected Indoor/Outdoor Aquaseal Water Resistant® Versions, see Aquaseal Catalog Section, Pages 119-130
- Resistant® Versions, see Aquaseal Section
- 500ft Put up lengths may be available, minimum quantities may apply.

ACCESS CONTROL CABLES

PLENUM READER CABLES

Multiple Conductor / Shielded 22 AWG and 18 AWG



Applications:

- Indoor for: Plenum Spaces
- Reader Cables
- Audio Circuits
- Low Voltage Power
- Access Control - Reader
- Division 28 05 13.16

Description:

- ASTM Bare Copper
- Polymer Alloy Insulation
- Cabled Construction
- Overall Shield Coverage 100% Aluminum Polyester Foil with Tinned Copper Drain Wire
- Overall Flex Plenum Jacket

Rating:

- NEC Type CMP
- (UL)-C(UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R. | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|------------------------------|-----------------------------|-----------------------------|-------------------------|------------------|----------|--------------------------|
| 253855B | 5 | 22 AWG (7x30) 17 Ω/Mft | .007 | Al. Foil - 100% 24 Strd. | .015 | .154 | CMP | 55 pf/ft* 99 pf/ft** |
| 253270B | 6 | 22 AWG (7x30) 17 Ω/Mft | .007 | Al. Foil - 100% 24 Strd. | .015 | .162 | CMP | 55 pf/ft* 99 pf/ft** |
| 253271B | 8 | 22 AWG (7x30) 17 Ω/Mft | .007 | Al. Foil - 100% 24 Strd. | .015 | .184 | CMP | 55 pf/ft* 99 pf/ft** |
| 253272B | 10 | 22 AWG (7x30) 17 Ω/Mft | .007 | Al. Foil - 100% 24 Strd. | .015 | .213 | CMP | 55 pf/ft* 99 pf/ft** |
| 253274B | 15 | 22 AWG (7x30) 17 Ω/Mft | .007 | Al. Foil - 100% 24 Strd. | .015 | .244 | CMP | 55 pf/ft* 99 pf/ft** |
| 253186B | 6 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | Al. Foil - 100% 24 Strd. | .015 | .221 | CMP | 68 pf/ft* 122 pf/ft** |
| 253188B | 8 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | Al. Foil - 100% 24 Strd. | .015 | .244 | CMP | 68 pf/ft* 122 pf/ft** |

| Insulation Color Code | | |
|-----------------------|-----------------|-----------------|
| Primary Color Code | | |
| 1. Black | 8. Yellow | 15. White/Green |
| 2. Red | 9. Purple | |
| 3. White | 10. Gray | |
| 4. Green | 11. Pink | |
| 5. Brown | 12. Tan | |
| 6. Blue | 13. White/Black | |
| 7. Orange | 14. White/Red | |

| Jacket Color Code |
|------------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |

- * Capacitance between conductors.
- ** Capacitance between one conductor and the other connected to the shield

Notes:

- Selected Plenum Versions, see Plenum Section.
- Cables are packaged in our Advantage Box. Larger AWG sized cables and Higher Paired cables may be on a reel.
- Rip Cord
- 500ft put up lengths may be available, minimum quantities may apply.

Unshielded Accessory Cables



Applications:

- Indoor for:
- Request to Exit (REX) Cables
- Lock Power Cables
- Door Contact Cables
- Division 28 05 13.16

Description:

- ASTM Bare Copper
- Thermoplastic insulation
- Short overall twist lengths
- Overall PVC jacket

Rating:

- NEC Type CMR or CL2R
- Flame Rating: UL1666

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R. | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|------------------------------|-----------------------------|-----------|-------------------------|------------------|----------|------------------|
| 221 | 2 | 22 AWG (7x30) 17 Ω/Mft | .007 | None | .017 | .120 | CMR | 31 pf/ft |
| 224 | 2 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | None | .017 | .156 | CMR | 33 pf/ft |
| 240 | 4 | 22 AWG Solid 17.5 Ω/Mft | .008 | None | .017 | .134 | CMR | -- |
| 241 | 4 | 22 AWG (7x30) 17 Ω/Mft | .007 | None | .017 | .138 | CMR | -- |
| 244 | 4 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | None | .017 | .183 | CMR | -- |

Unshielded / Plenum Rated Accessory Cables

Standard spool size, 1000ft.

Rating:

- NEC Type CMP or CL2RP
- Flame Rating: NFPA 262

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R. | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|------------------------------|-----------------------------|-----------|-------------------------|------------------|----------|------------------|
| 25221B | 2 | 22 AWG (7x30) 17 Ω/Mft | Polymer alloy .007 | None | Flex Plenum .015 | .116 | CMP | -- |
| 25224B | 2 | 18 AWG (7x26) 6.2 Ω/Mft | Polymer alloy .008 | None | Flex Plenum .015 | .154 | CMP | -- |
| 25244B | 4 | 18 AWG (7x26) 6.2 Ω/Mft | Polymer alloy .008 | None | Flex Plenum .015 | .180 | CMP | -- |
| 25241B | 4 | 22 AWG (7x30) 17 Ω/Mft | Polymer alloy .007 | None | Flex Plenum .015 | .136 | CMP | -- |

| Insulation Color Code | |
|-----------------------|-------|
| Primary Color Code | |
| 1. | Black |
| 2. | Red |
| 3. | White |
| 4. | Green |

| Jacket Color Code |
|---------------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |



Multiple Pair Series / Overall Shielded

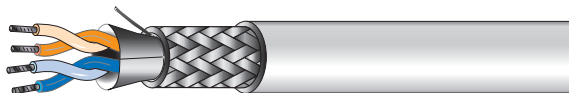
RS-485 Data Cables

Applications:

- Indoor for:
- Computer Application
- Low Capacitance Data
- RS-485 Data Applications

Rating:

- NEC Type CM
- (UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1685



Standard spool size, 1000ft.

| Catalog No. | No. of Pairs | Conductor Type & Nom. D.C.R. | Insulation Type & Thickness Inches | Shielding | Jacket Type & Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|------------------------------|------------------------------------|------------------------------------------------|--------------------------------|------------------|----------|---------------------------|
| D4851 | 1 | 24 AWG (7x32) 26 Ω/Mft | Polyolefin .020 | Al. Foil- 100% with drain wire TC Braid 90% | PVC .032 | .232 | CM | 12.8 pf/ft* 23 pf/ft** |
| D4852 | 2 | 24 AWG (7x32) 26 Ω/Mft | Polyolefin .020 | Al. Foil- 100% with drain wire TC Braid 90% | PVC .032 | .340 | CM | 12.8 pf/ft* 23 pf/ft** |

Electrical Characteristics - Nom. Vel of Propagation - 66% - Nom. Impedance Ω 24 AWG - 120Ω

Rating:

- NEC Type CMP
- (UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test

Standard spool size, 1000ft.

| Catalog No. | No. of Pairs | Conductor Type & Nom. D.C.R. | Insulation Type & Thickness Inches | Shielding | Jacket Type & Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|------------------------------|------------------------------------|------------------------------------------------|--------------------------------|------------------|----------|-------------------------|
| D254851 | 1 | 24 AWG (7x32) 26 Ω/Mft | Foam FEP | Al. Foil- 100% with drain wire TC Braid 90% | Flex. Plenum .017 | .202 | CMP | 12 pf/ft* 22 pf/ft** |
| D254852 | 2 | 24 AWG (7x32) 26 Ω/Mft | Foam FEP | Al. Foil- 100% with drain wire TC Braid 90% | Flex. Plenum .017 | .305 | CMP | 12 pf/ft* 22 pf/ft** |

Insulation Color Code

Pair Color Code

Pair 1. Blue - White/Blue

Pair 2. Orange - White/Orange

Jacket Color Code

Stocked jacket colors vary by item.
For available jacket color, please contact our Customer Service Department:
800-245-4964

Electrical Characteristics
Nom. Vel of Propagation - 76%
Nom. Impedance Ω 24 AWG - 120Ω

- * Capacitance between conductors.
- ** Capacitance between one conductor and the other connected to the shield

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Halogen Free

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SPECIALTY APPLICATIONS

Aquaseal® - Water Resistant

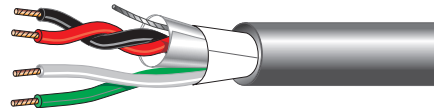
| | |
|---------------------------------------------------|-----|
| Shielded/Unshielded | 117 |
| Multiple Conductor Shielded | 118 |
| Multiple Conductor Unshielded | 119 |
| Multiple Pair - Individually Shielded | 120 |
| Two Conductor | 121 |
| Multiple Conductor Unshielded Direct Burial | 122 |
| Multiple Conductor Shielded Direct Burial | 123 |
| Aquaseal Coaxial Cables | 124 |

Halogen Free Cables

| | |
|--------------------------------------|-----|
| Two Conductor LSZH Cables | 126 |
| Multiple Conductor LSZH Cables | 127 |
| Fire Alarm LSZH | 128 |



Combination / Shielded and Unshielded



Water Resistant Cables
Underground In-Conduit

Applications:

- Indoor/Outdoor Use:
- Audio Circuits
 - Low Voltage Power
 - Intercom Audio
 - Division 27 41 00
 - Division 27 51 00
 - Division 28 05 13

Description:

- ASTM Bare Copper
- PVC Insulation
- Unshielded/Shielded Pair 100% Coverage of Aluminum Polyester Foil with Drain Wire
- Short Overall Twist Construction
- Waterblocked Construction
- Overall Sunlight/Moisture Resistant PVC Jacket

Rating:

- NEC Type CM or CL3
- (UL) Listed
- Meets 300V Requirements as specified in the NEC
- Flame Rating: UL1685

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|-----------------------------------|--------------------------------|-----------------------------|----------------------------|-------------------------|------------------|-----------|--------------------------|
| AQC351 | 3 (2 Shld) (1 Unshld) | 22 AWG Solid 17.5 Ω/Mft | .008 | Al. Foil-100% 22 Solid | .025 | .215 | CM CL3 | 54 pf/ft* 97 pf/ft** |
| AQC352 | 3 (2 Shld) (1 Unshld) | 22 AWG (7x30) 17 Ω/Mft | .007 | Al. Foil- 100% 24 Strd. | .025 | .230 | CM CL3 | 55 pf/ft* 99 pf/ft** |
| AQC355 | 4 (2 Shld) (2 Unshld) | 22 AWG Solid 17.5 Ω/Mft | .008 | Al. Foil- 100% 22 Solid | .025 | .220 | CM CL3 | 54 pf/ft* 97 pf/ft** |
| AQC357 | 4 (2 Shld) (2 Unshld) | 22 AWG (7x30) 17 Ω/Mft | .007 | Al. Foil- 100% 24 Strd. | .025 | .235 | CM CL3 | 55 pf/ft* 99 pf/ft** |
| AQC369 | 6 (2 Shld) (4 Unshld) | 22 AWG Solid 17.5 Ω/Mft | .008 | Al. Foil- 100% 24 Solid | .025 | .240 | CM CL3 | 54 pf/ft* 97 pf/ft** |
| AQC373 | 6 (1 Pr. Shld) (2 Pr. Unsh) | 22 AWG Solid 17.5 Ω/Mft | .008 | Al. Foil- 100% 24 Strd. | .025 | .260 | CM CL3 | 54 pf/ft* 97 pf/ft** |
| AQC359 | 4 (2 Shld) (2 Unshld) | 20 AWG (7x28) 10.5 Ω/Mft | .008 | Al. Foil-100% 24 Strd. | .025 | .266 | CM CL3 | 60 pf/ft* 108 pf/ft** |
| AQC358 | 3 (2 Shld) (1 Unshld) | 20 AWG (7x28) 10.5 Ω/Mft | .008 | Al. Foil-100% 24 Strd. | .025 | .260 | CM CL3 | 60 pf/ft* 108 pf/ft** |

Insulation Color Code

| Primary Color Code | AQC351, AQC352, AQC358, AQC355, AQC357, AQC359 | AQC369 | AQC373 |
|--------------------|------------------------------------------------|---------------------------------------|----------------------------------|
| Unshielded | 1. White, 2. Green | 1. White, 2. Green, 3. Brown, 4. Blue | 1. Black/Green 2. Black/White |
| Shielded | 1. Black, 2. Red | 1. Black, 2. Red | 1. Black, 2. Red |

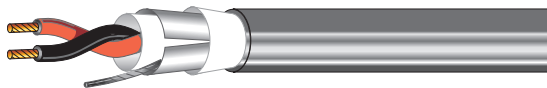
* Capacitance between conductors.
** Capacitance between one conductor and the other connected to the shield.

Jacket Color Code

Stocked jacket colors vary by item.
For available jacket color, please contact our Customer Service Department:
800-245-4964



Two & Multiple Conductor / Shielded



Aquaseal®



Water Resistant Cables

Underground In-Conduit

Applications:

- Indoor/Outdoor Use:
- Audio Circuits
 - Low Voltage Power
 - Intercom Audio
 - Line Level Audio
 - Division 27 41 00
 - Division 27 51 00
 - Division 28 05 13

Description:

- ASTM Bare Copper
- PVC Insulation
- Short Overall Twist Lengths
- Overall Shield 100% Coverage of Aluminum Polyester Foil with Drain Wire
- Waterblocked Construction
- Overall Sunlight/Moisture Resistant PVC jacket

Rating:

- NEC Type CM or CL3
- (UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1685

Standard pool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|----------------------------|-------------------------|------------------|---------------|--------------------------|
| AQC290 | 1 Pair | 22 AWG Solid 17.5 Ω/Mft | .008 | Al. Foil- 100% 22 Solid | .025 | .200 | CM CL3 | 54 pf/ft* 97 pf/ft** |
| AQC291 | 1 Pair | 22 AWG (7x30) 17 Ω/Mft | .007 | Al. Foil- 100% 24 Strd. | .025 | .205 | CM CL3 | 55 pf/ft* 99 pf/ft** |
| AQC3274 | 15 Cond. | 22 AWG (7x30) 17 Ω/Mft | .007 | Al. Foil- 100% 24 Strd. | .025 | .361 | CM CL3 | 55 pf/ft* 99 pf/ft** |
| AQC3270 | 6 Cond. | 22 AWG (7x30) 17 Ω/Mft | .007 | Al. Foil- 100% 24 Strd. | .025 | .220 | CM CL3 | 55 pf/ft* 99 pf/ft** |
| AQC292 | 1 Pair | 20 AWG (7x28) 10.5 Ω/Mft | .008 | Al. Foil- 100% 24 Strd. | .025 | .220 | CM CL3 | 60 pf/ft* 108 pf/ft** |
| AQC293 | 1 Pair | 18 AWG (7x26) 6.2 Ω/Mft | .010 | Al. Foil- 100% 24 Strd. | .025 | .257 | CM/CL3 FPL | 46 pf/ft* 83 pf/ft** |
| AQC3186 | 6 Cond. | 18 AWG (7x26) 6.2 Ω/Mft | .008 | Al. Foil- 100% 24 Strd. | .025 | .323 | CM CL3 | 68 pf/ft* 122 pf/ft** |
| AQC3283 | 12 Cond. | 18 AWG (7x26) 6.2 Ω/Mft | .008 | Al. Foil- 100% 24 Strd. | .025 | .410 | CM CL3 | 68 pf/ft* 122 pf/ft** |

Insulation Color Code

Primary Color Code

| | | |
|-----------|-----------------|-----------------|
| 1. Black | 8. Yellow | 15. White/Green |
| 2. Red | 9. Purple | |
| 3. White | 10. Gray | |
| 4. Green | 11. Pink | |
| 5. Brown | 12. Tan | |
| 6. Blue | 13. White/Black | |
| 7. Orange | 14. White/Red | |

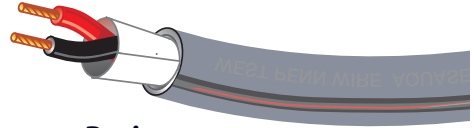
* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield.

Notes:

- Aquaseal Water Resistant Cables is a Registered Trademark of West Penn Wire
- Select Items are Packaged in our Advantage Box
- Orange Rip Cord under jacket.

Multiple Conductor / Unshielded



Aquaseal®



Water Resistant Cables

Underground In-Conduit

Applications:

- Indoor/Outdoor Use:
- Speaker Level
 - Audio Circuits
 - Low Voltage Power
 - Background Music
 - Division 27 41 00
 - Division 27 51 00
 - Division 28 05 13

Description:

- ASTM Bare Copper
- PVC Insulation
- Short overall Twist Construction
- Unshielded
- Waterblocked Construction
- Overall Sunlight/Moisture Resistant PVC Jacket

Rating:

- NEC Type CM / CL3
- (UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1685

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|-----------|-------------------------|------------------|---------------|------------------|
| AQC224 | 1 Pair | 18 AWG (7x26) 6.2Ω/Mft | .010 | None | .025 | .218 | CM/CL3 FPL | NA |
| AQC188 | 8 | 18 AWG (7x26) 6.2Ω/Mft | .008 | None | .025 | .340 | CM CL3 | NA |
| AQC225 | 1 Pair | 16 AWG (19x29) 4.2Ω/Mft | .010 | None | .025 | .242 | CM/CL3 FPL | NA |
| AQC240 | 4 | 22 AWG Solid 17.5Ω/Mft | .008 | None | .025 | .194 | CM CL3 | NA |

Insulation Color Code

Primary Color Code

| | |
|----------|-----------|
| 1. Black | 7. Orange |
| 2. Red | 8. Yellow |
| 3. White | 9. Purple |
| 4. Green | 10. Gray |
| 5. Brown | 11. Pink |
| 6. Blue | 12. Tan |

Jacket Color Code

Stocked jacket colors vary by item.
For available jacket color, please contact our Customer Service Department:
800-245-4964

Notes:

- Aquaseal Water Resistant Cables is a Registered Trademark of West Penn Wire
- Select items are packaged in our Advantage Box.
- Orange Rip Cord under jacket.

Multiple Cable - Access Control Design



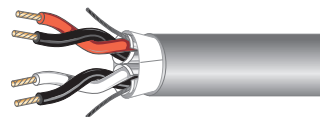
| Catalog No. | Cable Types | Application | NEC Type | Nom. Jacket O.D. & Color |
|-------------|-----------------------------------------------------------------------------|--------------------------------------------------------------|----------|--------------------------|
| AQC1822 | 2 Cond 22 AWG 4 Cond. 18 AWG 4 Cond. 22 AWG 3 Pair 22 AWG Shielded | Door Contact Lock Power Request to Exit Card Reader | CM | .460" |

Aquaseal®
Water Resistant Cables

All Aquaseal® Design



Multiple Pair / Each Pair Individually Shielded



Aquaseal®



Water Resistant Cables

Underground In-Conduit

Applications:

- Indoor/Outdoor Use:
- Audio Circuits
 - Low Voltage Power
 - Line Level Audio
 - Audio Rack Cabling
 - Division 27 41 00
 - Division 27 51 00

Description:

- ASTM Bare Copper
- PVC Insulation
- Short Overall Twist Lengths
- Individually Shield 100% Coverage of Aluminum Polyester Foil with TC Drain Wire
- Waterblocked Construction
- Overall Sunlight/Moisture Resistant PVC Jacket

Rating:

- NEC Type CM or CL3
- (UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1685

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|------------------------------|-----------------------------|----------------------------|-------------------------|------------------|-----------|-------------------------|
| AQC430 | 2 | 22 AWG (7x30) 17 Ω/Mft | .007 | Al. Foil- 100% 24 Strd. | .025 | .380 | CM CL3 | 55 pf/ft* 99 pf/ft** |
| AQC439 | 4 | 22 AWG (7x30) 17 Ω/Mft | .007 | Al. Foil- 100% 24 Strd. | .025 | .427 | CM CL3 | 55 pf/ft* 99 pf/ft** |
| AQC432 | 6 | 22 AWG (7x30) 17 Ω/Mft | .007 | Al. Foil- 100% 24 Strd. | .025 | .520 | CM CL3 | 55 pf/ft* 99 pf/ft** |
| AQC422 | 6 | 22 AWG (Solid) 17.5 Ω/Mft | .008 | Al. Foil- 100% 22 Solid | .025 | .510 | CM CL3 | 54 pf/ft* 97 pf/ft** |
| AQC434 | 12 | 22 AWG (7x30) 17 Ω/Mft | .007 | Al. Foil- 100% 24 Strd. | .025 | .698 | CM CL3 | 55 pf/ft* 99 pf/ft** |
| AQC424 | 12 | 22 AWG (Solid) 17.5 Ω/Mft | .008 | Al. Foil- 100% 22 Solid | .025 | .588 | CM CL3 | 54 pf/ft* 97 pf/ft** |

| Insulation Color Code | |
|-----------------------|-----------------|
| Pair Color Code | |
| 1. Black-Red | 7. Black-Orange |
| 2. Black-White | 8. Red-White |
| 3. Black-Green | 9. Red-Green |
| 4. Black-Blue | 10. Red-Blue |
| 5. Black-Yellow | 11. Red-Yellow |
| 6. Black-Brown | 12. Red-Brown |

* Capacitance between conductors.
** Capacitance between one conductor and the other connected to the shield.

Notes:

- Aquaseal Water Resistant Cables is a Registered Trademark of West Penn Wire.
- Orange Rip Cord under jacket.

Jacket Color Code

Stocked jacket colors vary by item.
For available jacket color, please contact our Customer Service Department:
800-245-4964

1 Pair / Unshielded



Aquaseal®



Water Resistant Cables

Underground In-Conduit

Applications:

- Indoor/Outdoor Use:
- Speaker Level
 - Audio Circuits
 - Low Voltage Power
 - Background Music
 - Division 27 41 00
 - Division 27 51 00
 - Division 28 05 13

Description:

- ASTM Bare Copper
- PVC Insulation
- Short Overall Twist Construction
- Unshielded
- Waterblocked Construction
- Overall Sunlight/Moisture Resistant PVC Jacket

Rating:

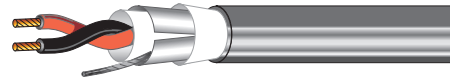
- NEC Type CM / CL3 or FPL
- (UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1685

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|-----------|-------------------------|------------------|---------------|------------------|
| AQC224 | 1 Pair | 18 AWG (7x26) 6.2Ω/Mft | .010 | None | .025 | .218 | CM/CL3 FPL | 30 pf/ft |
| AQC225 | 1 Pair | 16 AWG (19x29) 4.2Ω/Mft | .010 | None | .025 | .242 | CM/CL3 FPL | 35 pf/ft |
| AQC226 | 1 Pair | 14 AWG (19x27) 2.7Ω/Mft | .015 | None | .025 | .294 | CL3 FPL | 34 pf/ft |
| AQC227 | 1 Pair | 12 AWG (19x25) 1.7Ω/Mft | .015 | None | .025 | .325 | CL3 FPL | 34 pf/ft |

Aquaseal® Water Blocking Cable

1 Pair / Shielded



Aquaseal®



Water Resistant Cables

Underground In-Conduit

Applications:

- Indoor/Outdoor Use:
- Speaker Level
 - Audio Circuits
 - Low Voltage Power
 - Background Music

Description:

- ASTM Bare Copper
- PVC Insulation
- Short Overall Twist Lengths
- Overall Shield 100% Coverage of Aluminum Polyester Foil with Drain Wire
- Waterblocked Construction
- Overall Sunlight/Moisture Resistant PVC Jacket

Rating:

- NEC Type CM / CL3 or FPL
- Flame Rating: UL1685

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Thickness Inches | Shielding | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|-----------------------------|---------------------------|-------------------------|------------------|---------------|-------------------------|
| AQC293 | 1 Pair | 18 AWG (7x26) 6.2 Ω/Mft | .010 | Al. Foil-100% 24 Strd. | .025 | .257 | CM/CL3 FPL | 39 pf/ft* 70 pf/ft** |
| AQC294 | 1 Pair | 16 AWG (19x29) 4.2Ω/Mft | .010 | Al. Foil-100% 24 Strd. | .025 | .281 | CM/CL3 FPL | 46 pf/ft* 83 pf/ft** |
| AQC295 | 1 Pair | 14 AWG (19x27) 2.7Ω/Mft | .015 | Al. Foil-100% 24 Strd. | .025 | .333 | CL3 FPL | 48 pf/ft* 86 pf/ft** |



Multi-Conductor / 300 Volts Power-Limited



Aquaseal®



Water Resistant Cables
**Underground -
Direct Burial**

Applications:

- Indoor/Outdoor Use:
- Speaker Level
 - Audio Circuits
 - Low Voltage Power
 - Background Music
 - Division 27 41 00
 - Division 27 51 00
 - Division 28 05 13

Description:

- ASTM Bare Copper
- PVC insulation with Nylon
- Twisted Pair or Cabled Construction
- Waterblocked Construction
- Overall Sunlight/Moisture Resistant PVC Jacket

Rating:

- NEC Type FPL or PLTC or CL3
- (UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Direct Burial
- Flame Rating: UL1685

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding | Jacket Type & Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|------------------------------------|-----------|--------------------------------|------------------|-----------------|------------------|
| AQ224 | 1 Pair | 18 AWG (7x26) 6.2 Ω/Mft | PVC .015 Nylon .005 | None | .035 | .270 | CL3/FPL PLTC | 25 pf/ft* |
| AQ244 | 4 | 18 AWG (7x26) 6.2 Ω/Mft | PVC .015 Nylon .005 | None | .040 | .327 | CL3/FPL PLTC | 25 pf/ft* |
| AQ225 | 1 Pair | 16 AWG (7x24) 4.2 Ω/Mft | PVC .015 Nylon .005 | None | .040 | .295 | CL3/FPL PLTC | 28 pf/ft* |
| AQ245 | 4 | 16 AWG (7x24) 4.2 Ω/Mft | PVC .015 Nylon .005 | None | .040 | .355 | CL3/FPL PLTC | 28 pf/ft* |
| AQ226 | 1 Pair | 14 AWG (19x27) 2.7 Ω/Mft | PVC .015 Nylon .005 | None | .040 | .310 | CL3/FPL PLTC | 32 pf/ft* |
| AQ246 | 4 | 14 AWG (19x27) 2.7 Ω/Mft | PVC .015 Nylon .005 | None | .040 | .395 | CL3/FPL PLTC | 32 pf/ft* |
| AQ227 | 1 Pair | 12 AWG (19x25) 1.7 Ω/Mft | PVC .015 Nylon .005 | None | .040 | .340 | CL3/FPL PLTC | 36 pf/ft* |

Insulation Color Code

Primary Color Code

1. Black
2. Red
3. White
4. Green

* Capacitance between conductors.

Notes:

- Aquaseal Water Resistant Cables is a Registered Trademark of West Penn Wire
- Orange ripcord under jacket

Jacket Color Code

Stocked jacket colors vary by item.
For available jacket color, please contact our
Customer Service Department:
800-245-4964

Multi-Conductor / 300 Volts Power-Limited Shielded



Aquaseal®



Water Resistant Cables
**Underground -
Direct Burial**

Applications:

- Indoor/Outdoor Use:
 - Low Voltage Industrial Process Control
 - Power-Limited Circuits
 - Power-Limited Fire Alarm Circuits
 - Power-Limited Tray Cable PLTC
- Line Level Audio
- Division 27 41 00
- Division 27 51 00
- Division 28 05 13

Description:

- ASTM Bare Copper
- PVC insulation with Nylon
- Twisted Pair or Cabled Construction
- Overall Shield 100% Coverage of Aluminum Polyester Foil with Drain Wire
- Waterblocked Construction
- Overall Sunlight/Moisture Resistant PVC Jacket

Rating:

- NEC Type FPL or PLTC or CL3
- (UL) Listed
- Meets 300V Requirements as Specified in the NEC
- Direct Burial
- Flame Rating: UL1685

Standard spool size, 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding | Jacket Type & Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|-----------------------------|------------------------------------|---------------------------|--------------------------------|------------------|-----------------|-------------------------|
| AQ293 | 1 Pair | 18 AWG (7x26) 6.2Ω/Mft | PVC .015 Nylon .005 | Al. Foil-100% 24 Strd. | .040 | .310 | CL3/FPL PLTC | 32 pf/ft* 58 pf/ft** |
| AQ3244 | 4 | 18 AWG (7x26) 6.2Ω/Mft | PVC .015 Nylon .005 | Al. Foil-100% 24 Strd. | .040 | .371 | CL3/FPL PLTC | 32 pf/ft* 58 pf/ft** |
| AQ294 | 1 Pair | 16 AWG (7x24) 4.2Ω/Mft | PVC .015 Nylon .005 | Al. Foil-100% 24 Strd. | .040 | .328 | CL3/FPL PLTC | 37 pf/ft* 67 pf/ft** |
| AQ3245 | 4 | 16 AWG (7x24) 4.2Ω/Mft | PVC .015 Nylon .005 | Al. Foil-100% 24 Strd. | .050 | .415 | CL3/FPL PLTC | 37 pf/ft* 67 pf/ft** |
| AQ295 | 1 Pair | 14 AWG (19x27) 2.7Ω/Mft | PVC .015 Nylon .005 | Al. Foil-100% 24 Strd. | .040 | .350 | CL3/FPL PLTC | 46 pf/ft* 83 pf/ft** |
| AQ296 | 1 Pair | 12 AWG (19x25) 1.7Ω/Mft | PVC .015 Nylon .005 | Al. Foil-100% 24 Strd. | .040 | .375 | CL3/FPL PLTC | 54 pf/ft* 97 pf/ft** |

Insulation Color Code

Primary Color Code

1. Black
2. Red
3. Brown
4. Blue

* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield

Notes:

- Aquaseal Water Resistant Cables is a Registered Trademark of West Penn Wire.
- Orange Rip Cord under jacket.

Jacket Color Code

Stocked jacket colors vary by item.
For available jacket color, please contact our
Customer Service Department:
800-245-4964



Coaxial Cables / Pro-Video - CATV - CCTV



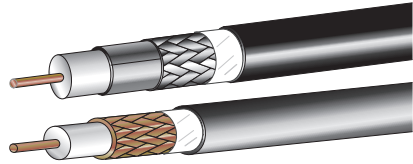
Water Resistant Cables

Applications:

- Indoor/Outdoor:
- CCTV Security
- SDI - Pro-Video
- MATV/CATV

Features:

- NEC Type CM
- Waterblocking Tape



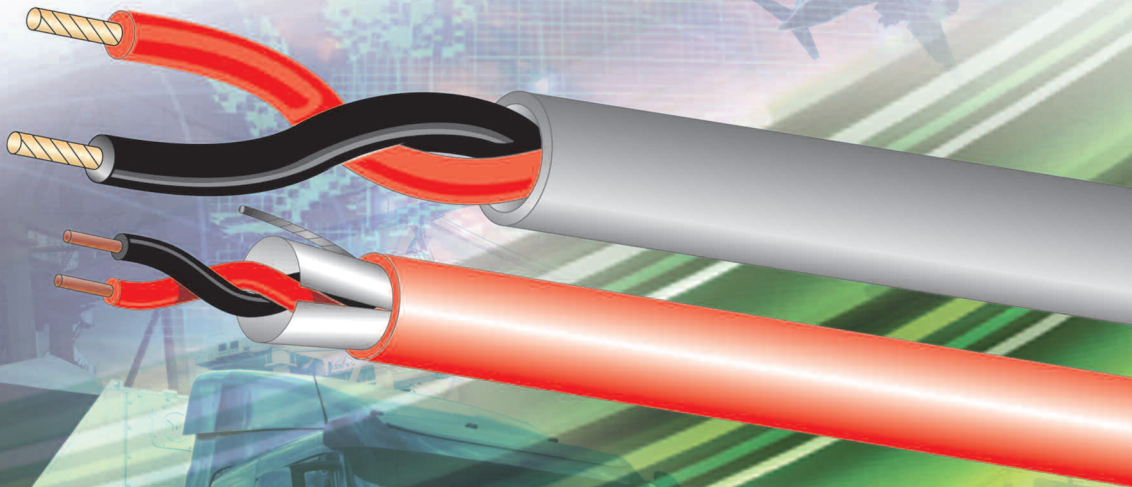
Underground In-Conduit

Mechanical Specifications

Standard pool size, 1000ft.

| Catalog No. | Conductor Type & Nom. D.C.R | Nominal O.D Inches | Insulation Type, O.D. Inches | Shielding % Coverage | Jacket Type | Jacket Colors | NEC Type | Jacket Color |
|-------------|--------------------------------|--------------------|----------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------|----------------------------------------|----------------------------------|---------------------------|
| AQC819 | 20 AWG Solid BC 10 Ω/M' | .242 | Gas Injected PE .142 | Waterblocking tape + Bifoil 100% TC Braid 95% | Sunlight Resistant PVC | Black | CM | Black |
| | | | | | Connectors Type 75Ω 3 Pc BNC - 75Ω Compression BNC - | Connector CN-BM74-32 CN-BNC59MCV | Strip Tool TL-7503 TL-CSST | Tool TL-104 TL-SNSA |
| AQC815 | 20 AWG Solid BC 10 Ω/M' | .242 | Gas Injected PE .142 + Tape Barrier | Waterblocking tape + Bare Copper Braid 95% | Sunlight Resistant PVC | Black | CM | Black |
| | | | | | Connectors Type 75Ω 3 Pc BNC - 75Ω Compression BNC - | Connector CN-BM74-32 CN-BNC59MCV | Strip Tool TL-7503 TL-CSST | Tool TL-104 TL-SNSA |
| AQC841 | 18 AWG Solid BC 6.5 Ω/M' | .275 | Gas Injected PE .180 | Waterblocking tape + 100% Al. Foil Al. Braid 65% | Sunlight Resistant PVC | Black | CM | Black |
| | | | | | Connectors Type "F" Type - "F" Compression - | Connector CN-F56AQ CN-F6MCV | Strip Tool TL-7502 TL-CSST | Tool TL-111 TL-548G |
| AQC806 | 18 AWG Solid BC 6.5 Ω/M' | .280 | Gas Injected PE .180 + Tape Barrier | Waterblocking tape Bare Copper Braid 95% | Sunlight Resistant PVC | Black | CM | Black |
| | | | | | Connector Type 75Ω 3 Pc Crimp BNC 75Ω Compression BNC | Connectors CN-BM73-5 CN-BNC6MCV | Strip Tool TL-7503 TL-CSST | Tool TL-107 TL-SNSA |
| AQC6350 | 18 AWG Solid BC 6.5 Ω/M' | .280 | Gas Injected PE .180 + Tape Barrier | Waterblocking tape + Bifoil 100% + TC Braid 95% | Sunlight Resistant PVC | Black | CM | Black |
| | | | | | Connector Type 75Ω 3 Pc Crimp BNC 75Ω Compression BNC | Connectors CN-BM73-5 CN-BNC6MCV | Strip Tool TL-7503 TL-CSST | Tool TL-107 TL-SNSA |

Halogen-Free Cable for Confined Areas & Critical Applications



Transportation • Telecommunications • Infrastructure
Oil & Gas • Petrochemical

Two Conductor / Unshielded



Applications:

- Indoor for:
- Speaker Level
- Audio Circuits
- Low Voltage Power

Description:

- ASTM Bare Copper
- Thermoplastic Insulation
- Short Overall Twist Lengths
- Overall LSZH Halogen Free Jacket

Rating:

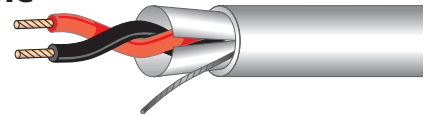
- NEC Type CM-LS, CMG-LS
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1685

Standard spool size, 1000ft.

| Catalog No. | No. of Conductors | Conductor Type & Nom. D.C.R. | Insulation Thickness Inches | Shielding & % Coverage + Drain Wire | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|-------------------|------------------------------|-----------------------------|-------------------------------------|-------------------------|------------------|-----------------|------------------|
| HF224 | 2 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | None | .046 | .214 | CM-LS CMG-LS | 20 pf/ft |
| HF225 | 2 | 16 AWG (19x29) 4.2 Ω/Mft | PP* .008 | None | .046 | .238 | CM-LS CMG-LS | 22 pf/ft |
| HF226 | 2 | 14 AWG (19x27) 2.7 Ω/Mft | PP* .012 | None | .046 | .280 | CL3-LS | 22 pf/ft |
| HF227 | 2 | 12 AWG (19x25) 1.7 Ω/Mft | PP* .012 | None | .046 | .326 | CL3-LS | 22 pf/ft |

Halogen Free Communication & Control Cable

Twisted Pair Overall Shielded / Two Conductor



Description:

- ASTM Bare Copper
- Thermoplastic Insulation
- Overall Shield 100% Coverage of Aluminum Polyester Foil with TC Drain Wire
- Twisted Pair Construction
- Overall LSZH Halogen Free Jacket

Standard spool size, 1000ft.

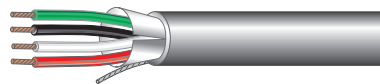
| Catalog No. | No. of Conductors | Conductor Type & Nom. D.C.R. | Insulation Thickness Inches | Shielding & % Coverage + Drain Wire | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|-------------------|------------------------------|-----------------------------|-------------------------------------|-------------------------|------------------|----------|--------------------------|
| HF293 | 2 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | Al. Foil 100% 24 Strd. | .032 | .190 | CMG-LS | 53 pf/ft* 104 pf/ft** |
| HF294 | 2 | 16 AWG (19x29) 4.1 Ω/Mft | .010 | Al. Foil 100% 24 Strd. | .032 | .211 | CMG-LS | 53 pf/ft* 104 pf/ft** |
| HF295 | 2 | 14 AWG (19x27) 2.7 Ω/Mft | .012 | Al. Foil 100% 24 Strd. | .032 | .255 | CL3-LS | 54 pf/ft* 106 pf/ft** |
| HF296 | 2 | 12 AWG (19x25) 1.7 Ω/Mft | .012 | Al. Foil 100% 24 Strd. | .032 | .301 | CL3-LS | 64 pf/ft* 126 pf/ft** |

| Insulation Color Code |
|-----------------------|
| Primary Color Code |
| 1. Black |
| 2. Red |

| Jacket Color Code |
|---------------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |

- * Capacitance between conductors.
- ** Capacitance between one conductor and the other connected to the shield.

Multi-Conductor / Shielded



Applications:

- Indoor/Outdoor Use:
- Speaker Level
- Audio Circuits
- Low Voltage Power

Description:

- ASTM Bare Copper
- Thermoplastic Insulation
- Overall Shield 100% Coverage of Aluminum Polyester Foil with TC Drain Wire
- Twisted Pair Construction
- Overall LSZH Halogen Free Jacket

Rating:

- NEC Type CM-LS, CMG-LS
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1685

Standard spool size, 1000ft.

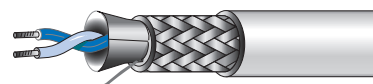
| Catalog No. | No. of Conductors | Conductor Type & Nom. D.C.R. | Insulation Thickness Inches | Shielding & % Coverage + Drain Wire | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|-------------------|------------------------------|-----------------------------|-------------------------------------|-------------------------|------------------|-----------------|-------------------------|
| HF302 | 3 | 20 AWG (7x28) 10.5 Ω/Mft | .008 | Al. Foil 100% 24 Strd. | .032 | .179 | CM-LS CMG-LS | 32 pf/ft* 58 pf/ft** |
| HF303 | 3 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | Al. Foil 100% 24 Strd. | .032 | .198 | CM-LS CMG-LS | 36 pf/ft* 65 pf/ft** |
| HF3244 | 4 | 18 AWG (7x26) 6.2 Ω/Mft | .008 | Al. Foil 100% 24 Strd. | .032 | .214 | CM-LS CMG-LS | 36 pf/ft* 65 pf/ft** |
| HF3245 | 4 | 16 AWG (19x29) 4.2 Ω/Mft | .008 | Al. Foil 100% 24 Strd. | .032 | .240 | CM-LS CMG-LS | 42 pf/ft* 76 pf/ft** |

| Insulation Color Code |
|-----------------------|
| Primary Color Code |
| 1. Black |
| 2. Red |
| 3. White |
| 4. Green |

| Jacket Color Code |
|------------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |

- * Capacitance between conductors.
- ** Capacitance between one conductor and the other connected to the shield.

Halogen Free Communication & Control Cable



RS-485 Serial Data

Applications:

- Indoor/Outdoor Use:
- RS-485
- Low Speed Data

Description:

- ASTM Bare Copper
- Polypropylene Insulation
- Overall Shield 100% Coverage of Aluminum Polyester Foil with TC Drain Wire
- Twisted Pair Construction
- Overall LSZH Halogen Free Jacket

Rating:

- NEC Type CM-LS, CMG-LS
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1685

Standard spool size, 1000ft.

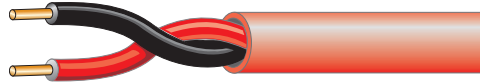
| Catalog No. | No. of Pairs | Conductor Type & Nom. D.C.R. | Insulation Thickness Inches | Shielding & % Coverage + Drain Wire | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|--------------|------------------------------|-----------------------------|--------------------------------------|-------------------------|------------------|----------|---------------------------|
| HFD4851 | 1 Pair | 24 AWG (7x32) 26 Ω/Mft | .020 | Al. Foil 100% + Braid 24 Strd. | .030 | .255 | CMG-LS | 12.8 pf/ft* 23 pf/ft** |

| Insulation Color Code |
|---------------------------|
| Pair Color Code |
| Pair 1. Blue - White/Blue |

- * Capacitance between conductors.
- ** Capacitance between one conductor and the other connected to the shield.



Two Conductor / Unshielded



Applications:

- Indoor for:
- Fire Alarm Signaling

Description:

- ASTM Bare Copper
- Thermoplastic Insulation
- Short Overall Twist Lengths
- Overall LSZH Halogen Free Jacket

Rating:

- NEC Type FPL-LS
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1685

Standard spool size, 1000ft.

| Catalog No. | No. of Conductors | Conductor Type & Nom. D.C.R. | Insulation Thickness Inches | Shielding & % Coverage + Drain Wire | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|-------------------|------------------------------|-----------------------------|-------------------------------------|-------------------------|------------------|----------|------------------|
| HF980 | 2 | 18 AWG Solid 6.5 Ω/Mft | .008 | None | .046 | .204 | FPL-LS | 19 pf/ft |
| HF990 | 2 | 16 AWG Solid 4.2 Ω/Mft | .008 | None | .046 | .226 | FPL-LS | 20 pf/ft |
| HF994 | 2 | 14 AWG Solid 2.7 Ω/Mft | .012 | None | .046 | .268 | FPL-LS | 23 pf/ft |
| HF998 | 2 | 12 AWG Solid 1.7 Ω/Mft | .012 | None | .046 | .302 | FPL-LS | 23 pf/ft |

Halogen Free Fire Alarm

Two Conductor / Shielded



Applications:

- Indoor for:
- Fire Alarm Signaling

Description:

- ASTM Bare Copper
- Polypropylene Insulation
- Overall Shield 100% Coverage of Aluminum Polyester Foil with TC Drain Wire
- Twisted Pair Construction
- Overall LSZH Halogen Free Jacket

Rating:

- NEC Type FPL-LS
- Meets 300V Requirements as Specified in the NEC
- Flame Rating: UL1685

Standard spool size, 1000ft.

| Catalog No. | No. of Conductors | Conductor Type & Nom. D.C.R. | Insulation Thickness Inches | Shielding & % Coverage + Drain Wire | Jacket Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance |
|-------------|-------------------|------------------------------|-----------------------------|-------------------------------------|-------------------------|------------------|----------|-------------------------|
| HF975 | 2 | 18 AWG Solid 6.5 Ω/Mft | .008 | Al. Foil 100% 24 Strd. | .030 | .183 | FPL-LS | 38 pf/ft* 69 pf/ft** |
| HF991 | 2 | 16 AWG Solid 4.2 Ω/Mft | .008 | Al. Foil 100% 24 Strd. | .030 | .201 | FPL-LS | 43 pf/ft* 78 pf/ft** |
| HF995 | 2 | 14 AWG Solid 2.7 Ω/Mft | .012 | Al. Foil 100% 24 Strd. | .032 | .243 | FPL-LS | 39 pf/ft* 70 pf/ft** |
| HF999 | 2 | 12 AWG Solid 1.7 Ω/Mft | .012 | Al. Foil 100% 24 Strd. | .032 | .277 | FPL-LS | 44 pf/ft* 79 pf/ft** |

| Insulation Color Code | |
|-----------------------|-------|
| Primary Color Code | |
| 1. | Black |
| 2. | Red |

| Jacket Color Code |
|------------------------------------------------------------------------------------------------------------------------------|
| Stocked jacket colors vary by item. For available jacket color, please contact our Customer Service Department: 800-245-4964 |

* Capacitance between conductors.
** Capacitance between one conductor and the other connected to the shield.

The know how. Understanding cable design, coaxial design and fiber optic design is pages away. You can also find the recommended connectors, tools and much more technical information that will help you understand cable design and implementation. We want to make your installation free from problems. If you are looking for more information on termination techniques, connector selection, or other technical data, see our website, www.westpennwire.com



TECHNICAL REFERENCE

Technical Reference Section

| | |
|----------------------------------------------------|---------|
| Understanding National Electrical Code (NEC) | 130-131 |
| Conduit Capacity | 132-133 |
| Shipping Policy and Warranty Info | 134-135 |
| Cable Index | 136-138 |
| Cable Accessories Index | 138-140 |

The National Electrical Code (NEC) is a set of guidelines written to govern the installation of wiring and equipment in commercial buildings and residential areas. These guidelines were developed to ensure the safety of humans as well as property against fires and electrical hazards. Understanding the National Electrical Code is important from the cable manufacturer engineer and distributor, to the designer and installer. Anyone involved in specifying cable to installation of cable should be aware of the basics of the code.

In 1987, the National Electrical Code introduced some major changes that had a major impact on the wire and cable industry. The code now has listing requirements for communication and power-limited circuit cable. These requirements developed fire resistance levels for cable. The code covers initiation of fire by electronic cable as well as flame spread characteristics of the cable.

Code Organization

The NEC code book is made up of nine chapters, with each chapter divided into separate articles pertaining to specific subjects. There are about five articles that pertain to communication and power-limited cable. Each article describes wire and cable construction, material use, cable markings, installation environments and applications.

Article Categories

There are four articles that cover communication, power-limited and CATV wiring. There is another category that deals strictly with optical fiber. The following is a list of those articles and the applications or systems they cover:

Article 725 - Class 1, Class 2, Class 3, Remote-control, Signaling and Power-Limited circuits

Article 760 - Fire Protective Signaling Systems

Article 770 - Fiber Optic Systems

Article 800 - Communication Circuits

Article 820 - Community Antenna Television

Article Overviews

The NEC code can be somewhat confusing to the novice who has not studied the code in depth. In most cases, within an article, a listing will allow for a higher listed cable to be substituted for lower listed cable. Or some listings from one article may be substituted for another article listing with possible restrictions. This section will briefly cover the basis of the code to try to make things clearer for you. You should consult the NEC book for exact specifications, wording, and accuracy of the code. This is not in any way an exact excerpt from the code.

Article 725

Article 725 covers Class 1, Class 2, and Class 3 remote control and signaling cables as well as power-limited tray cable. Power-limited tray cable can be used as a Class 3 or Class 2 cable. Cable listed multi-purpose, communications, or power-limited fire protective can be used for Class 2 and Class 3 applications. A Class 3 listed cable can be used as a Class 2 cable.

Article 760

Article 760 covers power-limited fire protective cable. Cable listed as power-limited fire protective cable can also be used as Class 2 and Class 3 cable. Cable listed as communications and Class 3 can

be used as power-limited fire protective cable with restrictions to conductor material and type, gauge size and number of conductors.

Article 770

Article 770 covers fiber optic cable. This article covers three general types: non-conductive, conductive, and composite. Non-conductive type refers to cable containing no metallic members and no other electrically conductive materials. Conductive type refers to cable containing non-current carrying conductive members such as metallic strength members, etc. Composite type refers to cable containing optical fibers and current carrying electrical conductors. Composite types are classified according to the type of electrical circuit that the metallic conductor is designed for.

Article 800

Article 800 covers multi-purpose and communication cable. Multi-purpose cable is the highest listing for a cable and can be used for communication, Class 2, Class 3, and power-limited fire protective cable. Communication cable can be used for Class 2 and Class 3 cable and also as a power-limited fire protective cable with restrictions.

Article 820

Article 820 covers community antenna television and RF cable. CATV cable may be substituted with multi-purpose or communication listed coaxial cable.

Designation and Environmental Areas

Not only does listing by circuit types have to be adhered to, but installation in various environments have to also be considered. The NEC has designated four categories for various environments. These will be listed from the highest to the lowest listing. A higher listing can be used as a substitute for a lower listing.

Plenum - This listing is suitable for use in ducts, plenums, and other space used for environmental air without conduit and has adequate fire-resistant and low-smoke producing characteristics. It can also be used for applications below.

Riser - This listing is suitable for use in a vertical run, in a shaft or from floor to floor, and has fire-resistant characteristics capable of preventing the carrying of fire from floor to floor. It can also be used for applications below.

General Purpose - This listing is suitable for general-purpose use, with the exception of risers, ducts, plenums, and other space used for environmental air, and is resistant to the spread of fire. It can also be used for all applications below.

Restricted Applications - This listing is for limited use and is suitable for use in dwellings and for use in raceways and is flame retardant. Restricted use is limited to non-concealed spaces of 10 feet or less, fully enclosed in conduit or raceway, or cable with diameters less than .25" for a residential dwelling.

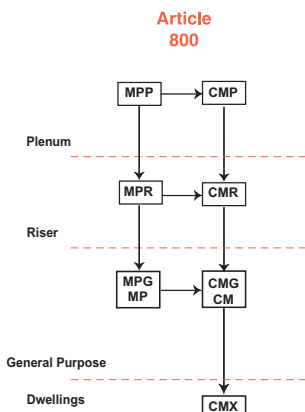
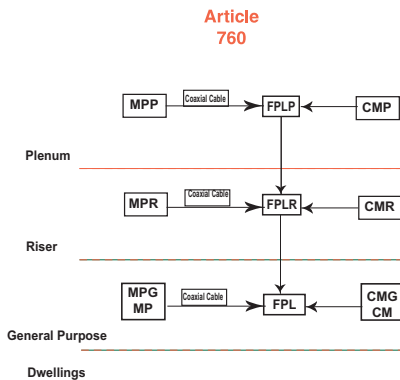
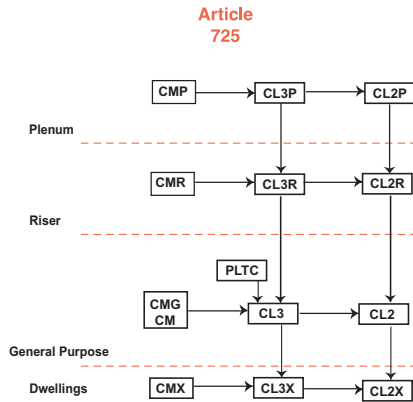
SPECIAL NOTES FOR COMMUNICATION CABLES:

- * MULTI-CONDUCTOR CABLES WITH 24-16 AWG CONDUCTORS CAN BE RATED UL AND C(UL).
- * MULTI-CONDUCTOR CABLES WITH 14-8 AWG CONDUCTORS ARE UL LISTED ONLY
- * 10-8 AWG SPEAKER CABLES ARE CL2 ONLY AND MUST INDICATE AUDIO USE ONLY

National Electrical Code

Substitution Chart

The following chart explains the NEC cable hierarchy and will give you a "picture" view of how this all fits together. The chart starts with the higher listed cable at the top descending to the lower listed cable. Following the arrows will allow you to find what listing can be substituted for others. Also note restrictions in which case you will have to review the NEC code in order to see if your cable is applicable.



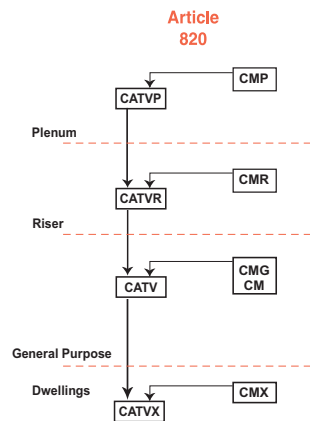
Final Considerations

The National Electrical Code is widely accepted as the suggested regulations governing the proper installation of wire and cable in the United States. The code is revised every three years to keep safety in the forefront in wire and cable manufacturing and installation. Even though the code is generally accepted, each state, county, city and municipality has the option to adopt all of the code, part of the code, or develop one of its own. The local inspectors have final authority of your installation. Therefore, the NEC is a good reference when questions arise about the proper techniques for a particular installation, but local authorities should be contacted for verification.

When choosing cable for your installation there are four guidelines to follow to keep problems to a minimum:

- 1 The application and environment determines which type of cable you can use and what rating it should have. Make sure the cable you're installing meets the proper ratings for your application.
- 2 If you will be substituting a cable with another, you must have a cable that is rated higher than what the code calls for. Check with your local inspector as to what is allowed in your local area.
- 3 The NEC code is a general guideline that can be adopted in whole or in part. Your local state, county, city, or municipal approved code is what you must follow. Contact your local authorities for verification of the code in your area.
- 4 The local inspector or fire marshal has the final authority to approve or disapprove any installation of cable based on the National Electric Code or on the local code.

If you remember these four guidelines, you should have fewer complications and headaches when installing cable in your area. Remember to always work closely with your local authorities.



Calculating Conduit Capacity

One Cable Type in Conduit

The following information is to provide you with a quick and easy reference for conduit fill requirements. This information is to be used as a general guideline. Each installation has different restrictions for installation environments and/or local codes to follow.

The Conduit Capacity Chart provided on the following page is for applications when only one type of cable is to be used in a conduit. For example, if you know the diameter of the cable you will be installing, use the cable O.D. column, and find the exact or next largest diameter cable O.D. Follow this row over to the number of cables you need to install in a conduit. Then follow this column to the top of the chart and read the conduit size required for the number of cables you need to install.

Multiple Types of Cable in One Conduit

If you will be mixing various cable diameters in a conduit, then this overall chart does not apply. You will have to use the following guidelines to calculate the conduit fill requirements.

To determine the conduit size required for a particular installation of cable follow these steps:

- 1 Square the O.D. of each cable and total the results.
- 2 Multiply the total by .7854*. This is the total area of the cables in square inches.
- 3 From the Permissible Area row on the Conduit Capacity Chart shown on the following page, select the conduit size with an area equal to or greater - than the total area you calculated.
* See Important Notes and Installation Suggestions
** Permissible Area to be occupied (sq. in.) is based on the NEC standard of 40% fill, which applies to three or more non-lead covered cable installed in the same conduit.

Important Notes and Installation Suggestions

- A single cable is permitted to occupy 53% and two cables are limited to 31% conduit fill. For a single cable use .5927 in step 2, for two cables use 1.1034, and three or more cables use .7854.
- This chart is based on the maximum number of cable permitted in conduit under the National Electrical Code, and is calculated on the area of the cable with 40% of the conduit filled. For conduit runs of 50 to 100 feet, the installed number should be reduced by 15%, or use the next larger size conduit. If more than two 90 degree bends are to be used in the conduit run, or if the run is to be over 100 feet in length, insert a pull box.
- An anti-friction agent is recommended in pulling operations.

***CAUTION:** Select an anti-friction agent which is suitable for the cable jacket material. The electronic characteristics of unjacketed cable may change due to the application of anti-friction agents.

*** COLD ENVIRONMENT PRECAUTION:** Due to the nature of PVC compounds to become non-pliable when stored or handled in ambient temperatures of 32 degrees F or less, we recommend the following:

"Prior to installation, condition the cable for at least 24 hours at room temperature to provide the best flex properties for ease of installation."

• Permissible area chart does not apply to metallic and non-metallic surface raceways; consult the NEC for recommendations.

THE NATIONAL ELECTRICAL CODE FORBIDS THE INSTALLATION OF COMMUNICATION CABLE IN THE SAME CONDUIT AS POWER CABLE.

Pulling Tensions

Under the stress of approximately 15,000 lbs./sq. in. annealed copper will begin to permanently stretch. The table below lists the absolute maximum recommended pulling tensions for conductor sizes. For multiple conductor cable, multiply the appropriate value by the total number of conductors. These pulling tensions must be equally distributed among the conductors.

THESE LIMITS MUST NEVER BE EXCEEDED
EVEN MOMENTARILY!
DON'T JERK THE CABLE!

The electronic characteristics of a cable may change due to excessive tension and crushing.

| Gauge | Max. Pulling Tension |
|--------|----------------------|
| 24 AWG | 4 lbs |
| 22 AWG | 7 lbs |
| 20 AWG | 12 lbs |
| 18 AWG | 19 lbs |
| 16 AWG | 30 lbs |
| 14 AWG | 48 lbs |
| 12 AWG | 77 lbs |

Conduit Capacity Chart

| Conduit Size | | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 | 2 1/2 | 3 | 3 1/2 | 4 |
|-------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| I.D. Inches | | .622 | .824 | 1.049 | 1.380 | 1.610 | 2.067 | 2.469 | 3.068 | 3.548 | 4.026 |
| Permissible Area* | | 0.12 | 0.21 | 0.34 | 0.60 | 0.82 | 1.34 | 1.92 | 2.95 | 3.96 | 5.09 |
| Cable O.D. Inch | Cable Area sq. Inch | | | | | | | | | | |
| .100 | .00785 | 15 | 27 | 44 | 76 | 103 | 171 | 298 | 450 | 588 | 751 |
| .125 | .01227 | 10 | 17 | 28 | 48 | 66 | 109 | 191 | 288 | 376 | 481 |
| .150 | .01767 | 7 | 12 | 19 | 34 | 46 | 76 | 132 | 200 | 261 | 334 |
| .175 | .02405 | 5 | 9 | 14 | 25 | 34 | 56 | 97 | 147 | 192 | 245 |
| .200 | .03142 | 4 | 6 | 11 | 19 | 26 | 42 | 74 | 112 | 147 | 188 |
| .225 | .03976 | 3 | 5 | 8 | 15 | 20 | 33 | 59 | 89 | 116 | 148 |
| .250 | .04909 | 2 | 4 | 7 | 12 | 16 | 27 | 47 | 72 | 94 | 120 |
| .275 | .0594 | 1 | 3 | 6 | 10 | 13 | 22 | 39 | 59 | 77 | 99 |
| .300 | .07069 | 1 | 3 | 5 | 8 | 11 | 19 | 33 | 50 | 65 | 83 |
| .325 | .08296 | 1 | 2 | 4 | 7 | 10 | 16 | 28 | 42 | 55 | 71 |
| .350 | .09621 | 1 | 1 | 3 | 6 | 8 | 14 | 24 | 36 | 48 | 61 |
| .375 | .11045 | 1 | 1 | 3 | 5 | 7 | 12 | 21 | 32 | 42 | 53 |
| .400 | .12566 | 1 | 1 | 2 | 4 | 6 | 10 | 18 | 28 | 36 | 47 |
| .425 | .14186 | 1 | 1 | 2 | 4 | 5 | 9 | 16 | 25 | 32 | 41 |
| .450 | .15904 | 1 | 1 | 1 | 3 | 5 | 8 | 14 | 22 | 29 | 37 |
| .475 | .17721 | 1 | 1 | 1 | 3 | 4 | 7 | 13 | 20 | 26 | 33 |
| .500 | .19635 | 1 | 1 | 1 | 3 | 4 | 7 | 12 | 18 | 23 | 30 |
| .525 | .21648 | 0 | 1 | 1 | 2 | 3 | 6 | 11 | 16 | 21 | 27 |
| .550 | .23758 | 0 | 1 | 1 | 2 | 3 | 5 | 10 | 15 | 19 | 25 |
| .575 | .25967 | 0 | 1 | 1 | 1 | 3 | 5 | 9 | 13 | 17 | 22 |
| .600 | .28274 | 0 | 1 | 1 | 1 | 3 | 4 | 8 | 12 | 16 | 21 |
| .625 | .3068 | 0 | 1 | 1 | 1 | 2 | 4 | 7 | 11 | 15 | 19 |
| .650 | .33183 | 0 | 1 | 1 | 1 | 2 | 4 | 7 | 10 | 14 | 17 |
| .675 | .35785 | 0 | 0 | 1 | 1 | 1 | 3 | 6 | 10 | 13 | 16 |
| .700 | .38484 | 0 | 0 | 1 | 1 | 1 | 3 | 6 | 9 | 12 | 15 |
| .725 | .41282 | 0 | 0 | 1 | 1 | 1 | 3 | 5 | 8 | 11 | 14 |
| .750 | .44179 | 0 | 0 | 1 | 1 | 1 | 3 | 5 | 8 | 10 | 13 |
| .775 | .47173 | 0 | 0 | 1 | 1 | 1 | 3 | 5 | 7 | 9 | 12 |
| .800 | .50265 | 0 | 0 | 1 | 1 | 1 | 2 | 4 | 7 | 9 | 11 |
| .825 | .53456 | 0 | 0 | 1 | 1 | 1 | 2 | 4 | 6 | 8 | 11 |
| .850 | .56745 | 0 | 0 | 1 | 1 | 1 | 2 | 4 | 6 | 8 | 10 |
| .875 | .60132 | 0 | 0 | 0 | 1 | 1 | 1 | 4 | 6 | 7 | 10 |
| .900 | .63617 | 0 | 0 | 0 | 1 | 1 | 1 | 3 | 5 | 7 | 9 |
| .925 | .67201 | 0 | 0 | 0 | 1 | 1 | 1 | 3 | 5 | 7 | 9 |
| .950 | .70882 | 0 | 0 | 0 | 1 | 1 | 1 | 3 | 5 | 6 | 8 |
| .975 | .74662 | 0 | 0 | 0 | 1 | 1 | 1 | 3 | 4 | 6 | 8 |
| 1.00 | .7854 | 0 | 0 | 0 | 1 | 1 | 1 | 3 | 4 | 6 | 7 |
| 1.025 | 0.825 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 4 | 6 | 7 |
| 1.05 | 0.866 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 4 | 5 |
| 1.075 | 0.908 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 4 | 5 |
| 1.100 | 0.950 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 4 | 5 |
| 1.125 | 0.994 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 3 | 5 |
| 1.150 | 1.039 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 3 | 4 |
| 1.175 | 1.084 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 3 | 4 |
| 1.20 | 1.131 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 3 | 4 |
| 1.225 | 1.179 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 3 | 4 |
| 1.250 | 1.227 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 3 | 4 |
| 1.275 | 1.277 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 3 | 3 |
| 1.300 | 1.327 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 3 | 3 |
| 1.325 | 1.379 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 3 |
| 1.350 | 1.431 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 3 |
| 1.375 | 1.485 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 3 |
| 1.400 | 1.539 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 3 |
| 1.425 | 1.595 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 3 |
| 1.450 | 1.651 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 3 |
| 1.475 | 1.709 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 2 |
| 1.500 | 1.767 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 2 |

EXAMPLES:

Example A.

Sample Cable:
227 - .260" O.D.

Go down the Cable O.D. inch column. Find the number equal to or greater than the cable O.D. Go across to find the number of cables in the appropriate conduit size.

.269" - Closest .275"
13 in a 1 1/2" Conduit.

Example B.

Three different Cables:

227 - .260" sqd. = .0676
D434 - .411" sqd. = .1689
6350 - .275" sqd. = .0756
+
.3169
x .7854
= .2489

On the Permissible Area-equal to or greater. The closest area is .034 Use a 1" Conduit

Important Note: This conduit capacity chart is to be used as a general guideline. Because local codes can vary from the NEC. West Penn Wire cannot be held responsible for this information as it pertains to your installation. Proper conduit fill is the sole responsibility of the installer and it is your responsibility to see that your installation will pass local codes.



Request to Return Material

Customers wishing to return material to West Penn Wire are required to obtain a "Return Material Authorization" (RMA) number prior to the material being returned. RMA numbers are issued in numerical sequence and expire 90 days from the date of issuance.

All material must be returned in original unopened West Penn Wire packaging. Returned material will only be accepted if received within six months of the original invoice date.

The issued RMA will provide instructions as to where and how the material is to be returned.

No return authorizations will be issued for discontinued items, warehouse clearance items, special made lengths, non-catalog items, and fiber.

Returns Due to West Penn Wire Error

If a return is necessary due to an error by West Penn Wire the customer will be reimbursed through trade credits for the material returned and any freight originally paid by the customer. The RMA will provide instructions as to where and how the material is to be returned. If the material is not returned pursuant to the provided instructions, the customer will be responsible for all freight charges incurred.

Returns Due to Customer Decision

If a return is requested by the customer due to any reason other than a WPW error, the customer will be responsible for the pro rata share of the original outbound freight if prepaid by WPW and the return freight. Returns will also be subject to the following restocking charges if received in conformity with the return policy:

- * 25% restock charge if there is no replacement order.
- * 10% restock charge if there is an equal dollar amount replacement order.
- * No restock charge if there is a replacement order that is twice the dollar amount of the original order.

All Content is subject to Change: Consult West Penn Wire

Limited Product Warranty - West Penn Wire

I. Limited Product Warranty

The following warranty is exclusive and in lieu of all other warranties, whether express or implied, or statutory, including, but not by way of limitation, any warranty of merchantability or fitness for any particular purpose.

West Penn Wire (WPW) warrants that the Products are, at the time of delivery to Buyer, free of material and workmanship defects, provided that no warranty is made with respect to:

- (a) any Product which has been repaired or altered in such a way, in WPW's judgment, as to affect the Product adversely;
- (b) any Product which has, in WPW's judgment, been subject to negligence, accident or improper storage;
- (c) any Product which has not been installed, operated and maintained in accordance with normal practice and in conformity with recommendations and published specifications of WPW.

At its option, WPW shall repair, replace or refund the purchase price of any non-conforming Products for a period of ten (10) years from the date of shipment of the Products to Buyer, and such obligation shall be the full extent of WPW's liability. WPW's liability with respect to any material not of WPW's manufacture shall be limited to the liability assumed by the vendor(s) of such material. Repairs to, alteration of, or work done on Products warranted by WPW but without WPW's prior written authorization shall void WPW's warranty on the Products.

Upon discovery of a defect, Buyer shall notify WPW in writing within 30 days of discovery of the defect of any claim whatsoever that Buyer may have with respect to any Products delivered hereunder, and failure to give such notice within the specified time shall constitute an unqualified acceptance and waiver of all claims with respect to the Products. Upon receipt of notice from Buyer of non-conforming Products, WPW may inspect such Products at Buyer's location or require that they be returned to WPW F.O.B. WPW's designated location.

II. Exclusivity of Remedy; Limitation of Liability

The remedies provided for in the preceding paragraph shall constitute the sole recourse of Buyer against WPW for breach of any of WPW's obligations under this Agreement, whether the claim is made in tort or in contract, including claims based on warranty, negligence, strict liability, fraud, misrepresentation, or otherwise.

In no event shall WPW be liable for special, indirect, incidental, consequential or punitive damages (regardless of the form of action, whether in contract or in tort, including negligence), nor for lost profits, nor shall WPW's liability for any claims or damage arising out of or connected with this Agreement or the manufacture, sale, delivery or use of the Products exceed the purchase price of the Products.



TECHNICAL REFERENCE

Technical Reference: Cable Index

| CAT NO. | PAGE | CAT NO. | PAGE | CAT NO. | PAGE | CAT NO. | PAGE |
|---------|-----------|----------|--------|---------|-------|---------|-------|
| 1100 | 91 | 25292B | 22 | 2598G8 | 34,94 | 369 | 11 |
| 1110 | 91 | 25293B | 22 | 25Q821 | 91 | 373 | 11 |
| 220 | 1 | 25294B | 22 | 25Q841 | 90 | 3751 | 15 |
| 221 | 1,115 | 25295B | 22 | 270 | 4,109 | 3752 | 15 |
| 222 | 1 | 25296B | 22 | 271 | 4,109 | 3753 | 15 |
| 224 | 1,38,115 | 25300B | 23 | 272 | 4,109 | 3855 | 6,112 |
| 225 | 1,38 | 25301B | 23 | 274 | 4,109 | 3CRGB | 77 |
| 226 | 1,38 | 25302B | 24 | 280 | 5,110 | 420 | 16 |
| 227 | 1,38 | 25303B | 24 | 281 | 5,110 | 422 | 16 |
| 230 | 2 | 253186B | 24,114 | 2815B | 81 | 4245EZ | 51 |
| 231 | 2 | 253188B | 24,114 | 282 | 5,110 | 4245F | 51 |
| 232 | 2 | 253241B | 23 | 283 | 5,110 | 4245IO | 51 |
| 234 | 2 | 253244B | 24 | 284 | 5,110 | 4245OSP | 51 |
| 235 | 2 | 253270B | 23,114 | 285 | 5 | 4246A | 46 |
| 236 | 2 | 253271B | 23,114 | 290 | 9 | 4246AF | 46 |
| 238 | 2 | 253272B | 23,114 | 291 | 9 | 4246EZ | 48 |
| 240 | 3,115 | 253274B | 23,114 | 292 | 9 | 4246F | 48 |
| 241 | 3,115 | 25352B | 25 | 293 | 9 | 4246IO | 48 |
| 242 | 3 | 25355B | 25 | 294 | 9 | 4246OSP | 48 |
| 244 | 3,39,115 | 25357B | 25 | 295 | 9 | 450 | 12 |
| 245 | 3,39 | 25358B | 25 | 296 | 9 | 451 | 12 |
| 245 | 3,39 | 25359B | 25 | 300 | 10 | 452 | 12 |
| 248 | 3,39 | 25372B | 25 | 301 | 10 | 454 | 27 |
| 25186B | 20,114 | 253855B | 23,114 | 3011 | 7,113 | 455 | 27 |
| 25188B | 20,114 | 253CRGB | 77 | 3021 | 8,113 | 4806 | 83 |
| 25210 | 41 | 254245EZ | 51 | 302 | 10 | 4811 | 84 |
| 25221B | 18,115 | 254245F | 51 | 303 | 10 | 4815 | 80 |
| 25222B | 18 | 254246A | 46,70 | 3241 | 6,112 | 45825 | 79 |
| 25224B | 18,38,115 | 254246AF | 46,70 | 3244 | 8 | 5CRGB | 74 |
| 25225B | 18,38 | 254246EZ | 48,72 | 3245 | 8 | 60164B | 98 |
| 25226B | 18,38 | 254246F | 48,72 | 3262 | 7,113 | 603164B | 101 |
| 25227B | 18,38 | 254247F | 45,69 | 3263 | 7,113 | 60700B | 98 |
| 25231B | 19 | 25440B | 26 | 3264 | 7 | 60975B | 101 |
| 25232B | 20 | 25441B | 26 | 3265 | 7 | 60977B | 101 |
| 25234B | 20 | 25510B | 26 | 3270 | 6,112 | 60980B | 98 |
| 25235B | 20 | 255CRGB | 74 | 3271 | 6,112 | 60982B | 98 |
| 25236B | 21 | 256100 | 90 | 3272 | 6,112 | 60990B | 101 |
| 25240B | 19 | 256300 | 90 | 3274 | 6,112 | 60990BS | 102 |
| 25241B | 19,115 | 256350 | 67 | 3280 | 8,113 | 60991B | 98 |
| 25242B | 20 | 25751B | 21 | 3281 | 8,113 | 60991BS | 99 |
| 25244B | 20,39,115 | 25752B | 21 | 3282 | 8 | 60992B | 101 |
| 25245B | 20,39 | 25753B | 21 | 3283 | 8 | 60992BS | 102 |
| 25246B | 21,39 | 25815E | 81 | 351 | 11 | 60993B | 98 |
| 25248B | 21,39 | 25855B | 19,111 | 352 | 11 | 60993BS | 99 |
| 25270B | 19,111 | 25806 | 82 | 355 | 11 | 60994B | 101 |
| 25271B | 19,111 | 25810 | 34,94 | 356 | 11 | 60994BS | 102 |
| 25272B | 19,111 | 25811 | 84 | 357 | 11 | 60995B | 98 |
| 25273B | 19,111 | 25812 | 34,94 | 358 | 11 | 60995BS | 99 |
| 25274B | 19,111 | 25815 | 80 | 359 | 11 | 6100 | 88 |
| 252815 | 81 | 25819 | 67 | 360 | 11 | 6140 | 88 |
| 25290B | 22 | 25825 | 79 | 3651 | 14 | 6300 | 89 |
| 25291B | 22 | 25841 | 90 | 3654 | 14 | 6310 | 89 |

TECHNICAL REFERENCE

Technical Reference: Cable Index

| CAT NO. | PAGE | CAT NO. | PAGE | CAT NO. | PAGE | CAT NO. | PAGE |
|------------|-------|---------|---------|----------|--------|----------|------|
| 6350 | 67 | AQ294 | 123 | D2404 | 54 | HA225 | 40 |
| 700 | 97 | AQ295 | 123 | D252401 | 55 | HA226 | 40 |
| 77291 | 29 | AQ296 | 123 | D252402 | 55 | HA227 | 40 |
| 77292 | 29 | AQ3244 | 123 | D25291 | 30 | HA245 | 40 |
| 77293 | 29 | AQ3245 | 123 | D25292 | 30 | HA246 | 40 |
| 77294 | 29 | AQC1822 | 108-119 | D25293 | 30 | HA248 | 40 |
| 77295 | 29 | AQC188 | 119 | D25294 | 30 | HD25825 | 67 |
| 77350 | 13 | AQC224 | 119 | D25350 | 13 | HD825 | 67 |
| 825182 | 79 | AQC224 | 121 | D253651 | 55 | HF224 | 126 |
| 806 | 82 | AQC225 | 119 | D253652 | 55 | HF225 | 126 |
| 807X | 34,94 | AQC225 | 121 | D25420 | 56 | HF226 | 126 |
| 810 | 34,94 | AQC226 | 121 | D25430 | 32 | HF227 | 126 |
| 811 | 84 | AQC227 | 121 | D25431 | 32 | HF293 | 126 |
| 812 | 34,94 | AQC240 | 119 | D25432 | 32 | HF294 | 126 |
| 813 | 34,94 | AQC2806 | 82 | D25439 | 32 | HF295 | 126 |
| 815 | 80 | AQC290 | 118 | D25454 | 28 | HF296 | 126 |
| 815E | 80 | AQC291 | 118 | D254851 | 57,116 | HF302 | 127 |
| 819 | 67 | AQC292 | 118 | D254852 | 57,116 | HF303 | 127 |
| 821 | 91 | AQC293 | 118 | D25510 | 32 | HF3244 | 127 |
| 825 | 79 | AQC294 | 121 | D3651 | 54 | HF3245 | 127 |
| 841 | 88 | AQC295 | 121 | D3653 | 54 | HF6100 | 88 |
| 855 | 4,109 | AQC2963 | 121 | D420 | 56 | HF975 | 128 |
| 975 | 100 | AQC3186 | 118 | D430 | 31 | HF980 | 128 |
| 977 | 100 | AQC3270 | 118 | D431 | 31 | HF990 | 128 |
| 980 | 97 | AQC3274 | 118 | D432 | 31 | HF991 | 128 |
| 982 | 97 | AQC3283 | 118 | D433 | 31 | HF994 | 128 |
| 98G8 | 34,94 | AQC351 | 117 | D434 | 31 | HF995 | 128 |
| 990 | 97 | AQC352 | 117 | D436 | 31 | HF998 | 128 |
| 990S | 99 | AQC355 | 117 | D438 | 31 | HF999 | 128 |
| 991 | 100 | AQC357 | 117 | D439 | 31 | HFD4851 | 127 |
| 992 | 97 | AQC358 | 117 | D440 | 17 | HQ841 | 89 |
| 993 | 100 | AQC359 | 117 | D441 | 17 | LL5122 | 105 |
| 994 | 97 | AQC369 | 117 | D442 | 17 | LL5122SH | 106 |
| 994S | 99 | AQC373 | 117 | D4851 | 57,116 | LL5142 | 105 |
| 995 | 100 | AQC422 | 120 | D4852 | 57,116 | LL5142SH | 106 |
| 995S | 100 | AQC424 | 120 | D4853 | 57 | LL5144 | 105 |
| 998 | 97 | AQC430 | 120 | D4854 | 57 | LL5162 | 105 |
| 998S | 99 | AQC432 | 120 | D60975 | 104 | LL5162SH | 106 |
| 999 | 100 | AQC434 | 120 | D60980 | 104 | LL5164 | 105 |
| 999S | 102 | AQC439 | 120 | D60990 | 104 | LL5164SH | 106 |
| AC1822 | 108 | AQC6350 | 67,124 | D60991 | 104 | LL5182 | 105 |
| AC251822B | 108 | AQC806 | 82,124 | D975 | 104 | LL5182SH | 106 |
| AC251822B3 | 108 | AQC815 | 80,124 | D980 | 103 | LL5184 | 105 |
| AC253PSH | 108 | AQC819 | 67,124 | D990 | 103 | LL5184SH | 106 |
| AQ224 | 122 | AQC841 | 88,124 | D991 | 103 | Q821 | 91 |
| AQ225 | 122 | C205 | 42 | D995 | 103 | Q821F | 91 |
| AQ226 | 122 | C206 | 42 | DA2401 | 33 | Q841 | 89 |
| AQ227 | 122 | C207 | 42 | DA2402 | 33 | WP58141 | 53 |
| AQ244 | 122 | C208 | 41 | DA252401 | 33 | WP58142 | 53 |
| AQ245 | 122 | C210 | 41 | DA252402 | 33 | WP9C006 | 59 |
| AQ246 | 122 | D2401 | 54 | HA210 | 40 | WP9C014 | 59 |
| AQ293 | 123 | D2402 | 54 | HA210 | 41 | WP9X043T | 58 |

TECHNICAL REFERENCE

Technical Reference: Cable Index & Accessories

| CAT NO. | PAGE |
|----------|------|
| WP9X045T | 58 |
| WP9X048T | 58 |
| WP9X240T | 60 |
| WP9X241T | 60 |
| WP9X242T | 60 |
| WP9X611T | 58 |

| CAT NO. | PAGE |
|--------------|-------|
| 106190 | 47,49 |
| 106192 | 47,49 |
| 12360C | 49 |
| 12458H-C5E | 52 |
| 12458M-C5E | 52 |
| 12458M-C6C | 50 |
| 12458MD-C5E | 52 |
| 12458MD-C6C | 50 |
| 12458MH-C6C | 50 |
| 12515C | 49 |
| 12516C | 49 |
| 12LC-FT | 65 |
| 12SC-FT | 65 |
| 15010C | 49 |
| 17507 | 64 |
| 19-1201 | 35 |
| 19-1202 | 35 |
| 19-1207 | 35 |
| 19-1239 | 43 |
| 19-1240 | 43 |
| 19-1268 | 35 |
| 24458-C5E | 52 |
| 24458-C6A | 47 |
| 24458-C6C | 50 |
| 24458A-C5E | 52 |
| 24458A-C6A | 47 |
| 24458A-C6C | 50 |
| 24458EC-C5E | 52 |
| 24458EC-C6 | 50 |
| 24458MD-C5E | 52 |
| 24458MD-C6A | 47 |
| 24458MD-C6C | 50 |
| 24458S-C5E | 52 |
| 24458S-C6A | 47 |
| 24458S-C6C | 50 |
| 24LC-FT | 65 |
| 24PP5E-L | 52 |
| 24PP5ES-L | 52 |
| 24PP6A-L | 47 |
| 24PP6AS-L | 47 |
| 24PP6C-L | 50 |
| 24PP6CS-L | 50 |
| 24SC-FT | 65 |
| 32-1900-XX | 49,51 |
| 32-5998UL | 51 |
| 32-6198UL | 49 |
| 32-6E2P | 49 |
| 32-EXEZ44-XX | 49,51 |
| 32-E2P | 51 |
| 3M-2501 | 64 |
| 3M-2529 | 64 |
| 40-9515HDM | 75 |
| 40-9515HDS | 75 |
| 40-9709HS | 75 |

| CAT NO. | PAGE |
|-----------------|-------|
| 44-A3F | 35 |
| 44-A3M | 35 |
| 48458-C5E | 52 |
| 48458-C6A | 47 |
| 48458-C6C | 50 |
| 48458A-C5E | 52 |
| 48458A-C6A | 47 |
| 48458A-C6C | 50 |
| 48458EC-C5E | 52 |
| 48458EC-C6 | 50 |
| 48458HD-C5E | 52 |
| 48458HD-C6A | 47 |
| 48458HD-C6C | 50 |
| 48458MD-C5E | 52 |
| 48458MD-C6A | 47 |
| 48458MD-C6C | 50 |
| 48458S-C6A | 47 |
| 48LC-FT | 65 |
| 48PP5E-L | 52 |
| 48PP5ES-L | 52 |
| 48PP6A-L | 47 |
| 48PP6AS-L | 47 |
| 48PP6C-L | 50 |
| 48PP6cS-L | 50 |
| 48SC-FT | 65 |
| 716SNS1P11PL-25 | 94 |
| 90170 | 47,49 |
| 90170-BI | 47,49 |
| AS-WC06G | 65 |
| AS-WC06M | 65 |
| AS-WC06S | 65 |
| AS-WC12G | 65 |
| AS-WC12M | 65 |
| AS-WC12S | 65 |
| AS-WL12G | 65 |
| AS-WL12M | 65 |
| AS-WL12S | 65 |
| AS-WL24G | 65 |
| AS-WL24M | 65 |
| AS-WL24S | 65 |
| AS-WT06M | 65 |
| AS-WT06S | 65 |
| AS-WT12M | 65 |
| AS-WT12S | 65 |
| C5E-CA1-cc-xx | 52 |
| C5EC-114cc-xxFB | 52 |
| C5ECS-314GY-cc | 52 |
| C5ES-CA1-cc-xx | 52 |
| C6-115cc-xxFB | 50 |
| C6A-CA1-cc-xx | 47 |
| C6AS-314cc-xxFB | 47 |
| C6AS-CA1-cc-xx | 47 |
| C6-CA1-cc-xx | 50 |
| C6CS-314GY-xxFB | 50 |

TECHNICAL REFERENCE

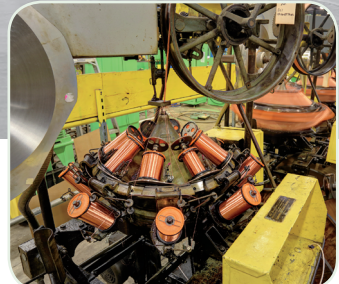
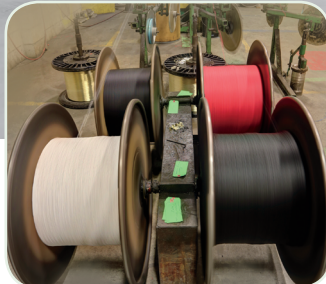
Technical Reference: Accessories Index

| CAT NO. | PAGE | CAT NO. | PAGE | CAT NO. | PAGE | CAT NO. | PAGE |
|-----------------|------|-----------------|-------|---------------|----------|-----------------|------|
| C6CS-CA1-cc-xx | 50 | CN-ADP106 | 87 | CN-EZSTP-EG | 51 | CN-NP3CBAG | 35 |
| CA-HDMIccc-xx | 72 | CN-ADP500 | 87 | CN-F11ALX | 92 | CN-NP3X | 35 |
| CMB-250-P | 52 | CN-ADP501 | 87 | CN-F11TFE | 92 | CN-NP3XB | 35 |
| CN-1RUSPK12 | 44 | CN-ADP503 | 87 | CN-F56ALM | 92 | CN-NP3XBAG | 35 |
| CN-1RUSPK12TB | 44 | CN-ADP504 | 87 | CN-F56ALX | 92 | CN-NYS230 | 35 |
| CN-1RUSPK16 | 44 | CN-ADP505 | 87 | CN-F56AQ | 92 | CN-NYS231 | 35 |
| CN-1RUSPK16TB | 44 | CN-ADP506 | 87 | CN-F56TFE | 92 | CN-NYS231B | 35 |
| CN-25810BMBM-xx | 96 | CN-ADP511 | 87 | CN-F59MCV | 92 | CN-NYS373-xx | 35 |
| CN-25810NMNM-xx | 96 | CN-ADP512 | 87 | CN-F59T | 92 | CN-PL-103F | 37 |
| CN-25812BMBM-xx | 96 | CN-ADP515 | 87 | CN-F59TFE/WP | 92 | CN-PL-103M | 37 |
| CN-25812NMNM-xx | 96 | CN-ADP516 | 87 | CN-F6MCV | 92 | CN-PL-103STF | 37 |
| CN-2598G8BM-xx | 96 | CN-ADP521 | 87 | CN-F71 | 92 | CN-PL-203F | 37 |
| CN-2598G8NM-xx | 96 | CN-ADP521-50 | 87 | CN-F81 | 92 | CN-PL-203M | 37 |
| CN-2598G8RS-xxx | 96 | CN-ADP523 | 87 | CN-F81NW | 92 | CN-PLxx-103F | 37 |
| CN-35FFSP | 35 | CN-ADP559 | 87 | CN-HD15FF | 75 | CN-PLxx-103M | 37 |
| CN-3CRGB-xx | 78 | CN-ADP703 | 87 | CN-HD15FST | 75 | CN-PLxx-103STF | 37 |
| CN-454SM-xx | 36 | CN-ADP705 | 87 | CN-HDExxxWP | 72 | CN-PLxx-203F | 37 |
| CN-5CRGHDMMxx | 76 | CN-ADP755 | 87 | CN-HDVGAAP-xx | 76 | CN-PLxx-203M | 37 |
| CN-7B25825**-10 | 85 | CN-ADP756 | 87 | CN-MFP8 | 45,47,69 | CN-RCA59MCV | 75 |
| CN-7B25825**-15 | 85 | CN-ADP807 | 87 | CN-MT-50 | 87 | CN-RCA6MVCV | 75 |
| CN-7B25825**-20 | 85 | CN-ADPBISO | 86 | CN-MT-75 | 87 | CN-RCP-825 | 75 |
| CN-7B25825**-25 | 85 | CN-ADPBNC | 86 | CN-MX15F | 75 | CN-RCP-RGB | 75 |
| CN-7B25825**-3 | 85 | CN-ADPBNC | 86 | CN-MX15M | 75 | CN-RR | 75 |
| CN-7B25825**-6 | 85 | CN-B0042 | 49 | CN-MX35 | 35 | CN-SB12-xx | 44 |
| CN-7B815BK-xx | 85 | CN-B0051 | 49 | CN-MX35M | 35 | CN-SB14-xx | 44 |
| CN-7B819BK-10 | 68 | CN-BM2598G8 | 36 | CN-MX915H | 75 | CN-SB16-xx | 44 |
| CN-7B819BK-15 | 68 | CN-BM53-13 | 36 | CN-MX9F | 75 | CN-SM3.5F | 35 |
| CN-7B819BK-20 | 68 | CN-BM53-13 | 36 | CN-MX9M | 75 | CN-SMTRCA-xx | 36 |
| CN-7B819BK-25 | 68 | CN-BM53-25 | 36 | CN-NC3FDL1 | 35 | CN-SMTSM-xx | 36 |
| CN-7B819BK-3 | 68 | CN-BM53-8 | 36 | CN-NC3FDL1B | 35 | CN-SS12-xx | 44 |
| CN-7B819BK-6 | 68 | CN-BM53-8X | 36 | CN-NC3FDLB | 35 | CN-SS14-xx | 44 |
| CN-7B825**-10 | 85 | CN-BM73-4 | 75-85 | CN-NC3FDLBAG | 35 | CN-SS16-xx | 44 |
| CN-7B825**-15 | 85 | CN-BM73-5 | 75-85 | CN-NC3FX | 35 | CN-SS1GSPK | 44 |
| CN-7B825**-20 | 85 | CN-BM74-18 | 75-85 | CN-NC3FXB | 35 | CN-SS2GSPK | 44 |
| CN-7B825**-25 | 85 | CN-BM74-19 | 75-85 | CN-NC3FXBAG | 35 | CN-TM53-1 | 36 |
| CN-7B825**-3 | 85 | CN-BM74-32 | 75-85 | CN-NC3MDL1B | 35 | CN-TM53-25812 | 36 |
| CN-7B825**-6 | 85 | CN-BM98G8 | 36 | CN-NC3MX | 35 | CN-TM53-807 | 36 |
| CN-807BMBM-xx | 96 | CN-BNC59MCV | 75-85 | CN-NC3MXB | 35 | CN-TM98G8 | 36 |
| CN-807NMNM-xx | 96 | CN-BNC6MCV | 75-85 | CN-NC3MXBAG | 35 | CN-VGAMM-xx | 76 |
| CN-807RSRS-xx | 96 | CN-BNCIL-16 | 87 | CN-NL4FC | 43 | CN-XPXJ-xx | 36 |
| CN-810BMBM-xx | 96 | CN-BNCIL-32 | 87 | CN-NL4FX | 43 | CN-XPXJDIG-10 | 36 |
| CN-810NMNM-xx | 96 | CN-BNCIL-48 | 87 | CN-NL4FX2 | 43 | CN253CRGBRCAxx | 78 |
| CN-812BMBM-xx | 96 | CN-BNCL-16 | 87 | CN-NL4FX4 | 43 | CN255CRGHDFMxx | 76 |
| CN-812NMNM-xx | 96 | CN-BNCL-32 | 87 | CN-NL4FX5 | 43 | CN255CRGHDDMMxx | 76 |
| CN-98G8BMBM-xx | 96 | CN-BNCL-48 | 87 | CN-NL4FX9 | 43 | CN25810KBNC | 36 |
| CN-98G8NMNM-xx | 96 | CN-BNCP-825 | 75-85 | CN-NL4MMX | 43 | CN25810KTNC | 36 |
| CN-98G8RS-xxx | 96 | CN-BNCP-RGB | 75-85 | CN-NL4MP | 43 | CN7BHD825BK10 | 68 |
| CN-AD6PBNK | 86 | CN-BPX-24B | 43 | CN-NL4MPST | 43 | CN7BHD825BK15 | 68 |
| CN-ADP-ST | 87 | CN-CAPFMUL-S1 | 47 | CN-NP2C | 35 | CN7BHD825BK20 | 68 |
| CN-ADP-ST75 | 87 | CN-CAT61PC-XX | 49 | CN-NP2CBAG | 35 | CN7BHD825BK25 | 68 |
| CN-ADP100 | 92 | CN-CPHMHEMETHxx | 75 | CN-NP2X | 35 | CN7BHD825BK3 | 68 |
| CN-ADP101 | 92 | CN-E3.5MM-xx | 36 | CN-NP2XB | 35 | CN7BHD825BK6 | 68 |
| CN-ADP102 | 92 | CN-E3BNC-xx | 78 | CN-NP2XBAG | 35 | CND25430RASxx | 36 |
| CN-ADP103 | 87 | CN-E3RCA-xx | 78 | CN-NP3C | 35 | CNH25825BK-10 | 68 |

TECHNICAL REFERENCE

Technical Reference: Accessories Index

| CAT NO. | PAGE | CAT NO. | PAGE | CAT NO. | PAGE |
|----------------|-------|-----------------|-------|----------------|----------|
| CNHD25825BK-15 | 68 | FI-WM24 | 65,86 | MS-SC2SDP1 | 64 |
| CNHD25825BK-20 | 68 | FI-WM48 | 65,86 | MS-SC2SSP1 | 64 |
| CNHD25825BK-25 | 68 | FI-X001-xx | 61 | PP-W1U1 | 65,87 |
| CNHD25825BK-3 | 68 | FI-X001-xxLC | 61 | PP-W2U1 | 65,87 |
| CNHD25825BK-6 | 68 | FI-X001-xxLC/SC | 61 | PP-W4U1 | 65,87 |
| CPLCCT-11 BNC | 76-86 | FI-X001-xxSC | 61 | PP-WM1S | 65,86 |
| CPLCCT-SLM | 86 | FI-X001-xxST/SC | 61 | PP-WM2S | 65,86 |
| CPLCCT-SS59/11 | 93 | FI-X002-xx | 61 | PP-WM4S | 65,86 |
| DB15BNCHD | 68 | FI-X002-xxLC | 61 | PS11 | 93 |
| DB59BNCHD | 68 | FI-X002-xxLC/SC | 61 | RJ455ES-C5E | 52 |
| DB6BNCHD | 68 | FI-X002-xxSC | 61 | RJ455EU-C5E-cc | 52 |
| DB6BNCPL2 | 68 | FI-X002-xxST/SC | 61 | RJ456AS-C6A | 47 |
| DM-1MLCB24 | 65 | FP1-51-4-003M | 61 | RJ456AU-C6A-cc | 47 |
| DM-1MSCB12 | 65 | FP1-51-9-003M | 61 | RJ456S-C6C | 49 |
| DM-4MLC12 | 65 | FP1-6-4-003M | 61 | RJ456U-C6C-cc | 49 |
| DM-4MLC24 | 65 | FP1-6-9-003M | 61 | SNSUNI | 86 |
| DM-4MSCC12 | 65 | FP1-9-4-003M | 61 | SPL-MSPL12 | 64 |
| DR-PCB-HXXM | 64,72 | FP1-9-9-003M | 61 | SPL-MSPL6 | 64 |
| FI-3151 | 63 | FP12-51-9-003M | 61 | SPL-WS12A | 64 |
| FI-4240 | 63 | FP12-6-2-003M | 61 | TL-104 | 76,86,96 |
| FI-4242 | 63 | FP12-9-2-003M | 61 | TL-105 | 76,86,96 |
| FI-4243 | 63 | FP12-9-9-003M | 61 | TL-107 | 76-86 |
| FI-4244 | 63 | FP6-51-4-003M | 61 | TL-111 | 93 |
| FI-4246 | 63 | FP6-51-9-003M | 61 | TL-112 | 93-96 |
| FI-4247 | 63 | FP6-6-4-003M | 61 | TL-113 | 96 |
| FI-4248 | 63 | FP6-9-4-003M | 61 | TL-115 | 93-96 |
| FI-4249 | 63 | FP6-9-9-003M | 61 | TL-119 | 96 |
| FI-4250 | 63 | FS11BNC | 85 | TL-121 | 76-86 |
| FI-4251 | 63 | FS11V | 92 | TL-124 | 76-86 |
| FI-4270 | 63 | FSNS11HBNCPLA | 85 | TL-3650 | 52 |
| FI-4276 | 63 | FSNS59BNCPL | 85 | TL-548G | 76-86 |
| FI-4283 | 63 | FSNS59BNCPL | 85 | TL-59-6 | 93 |
| FI-4285 | 63 | FSNS6BNCPL | 85 | TL-7502 | 93 |
| FI-5214 | 63 | FSNS6BNCU | 85 | TL-803 | 76-86 |
| FI-5252 | 63 | HD-600-xxB | 72 | TL-825 | 76-86 |
| FI-5253 | 63 | HD-800-xx | 72 | TL-CAT6A-CRIMP | 45,47 |
| FI-8102 | 64 | KJ458MT-C5E-cc | 52 | TL-CATWIREST | 49 |
| FI-8200 | 64 | KJ458MT-C6A-cc | 47 | TL-CSST | 76-86 |
| FI-9X043-xxxCL | 62 | KJ458MT-C6C-cc | 49 | TL-EXOCRIMP | 49 |
| FI-9X043-xxxLC | 62 | KJMT-8600 | 47,52 | TL-EZRJ45PROCT | 49,51,52 |
| FI-9X043-xxxSC | 62 | KJWP-MTOOL | 52 | TL-KLEIN | 76-86 |
| FI-9X043-xxxST | 62 | KJS458MT-C6AC | 47 | TL-RG8-10G | 96 |
| FI-9X045-xxxCL | 62 | KJS458TL-C5E | 52 | TRJ45P | 52 |
| FI-9X045-xxxLC | 62 | KJS458TL-C6C | 49 | | |
| FI-9X045-xxxSC | 62 | KRJ45/5S | 52 | | |
| FI-9X045-xxxST | 62 | KRJ45/5S-SH | 52 | | |
| FI-FXBUCLLDB | 63 | KRJ45/6S | 49 | | |
| FI-GIG-GIDY-xx | 75 | KRJ45/6S-SH | 49 | | |
| FI-RM24 | 65,86 | MS-LC1SDP1 | 64 | | |
| FI-RM48 | 65,86 | MS-LC2MDP1 | 64 | | |
| FI-RME24STL | 65,86 | MS-LC3OD | 64 | | |
| FI-RME48STL | 65,86 | MS-LC3ODQ | 64 | | |
| FI-WM100 | 65,86 | MS-SC2MDP1 | 64 | | |
| FI-WM12 | 65,86 | MS-SC2MSP1 | 64 | | |



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