



Product: [658GMS](#)

Access Control, 18c (#22-6c Foil, #22-4c, #22-4c, #18-4c), CMP, Banana Peel®

Product Description

Access Control Cable, Plenum-CMP, 6-22 AWG conductors with Beldfoil® shield, 4-22 AWG conductors, 4-22 AWG conductors, 4-18 AWG conductors, All conductors stranded bare copper with Flamarrest® insulation, Each cable has Flamarrest® jacket, Banana Peel® No overall jacket

Technical Specifications

Product Overview

| | |
|------------------------|--|
| Suitable Applications: | Access Control, Security System, Power Limited Controls |
| Patent: | This product has one or more applicable patents. More information on patents can be found at https://www.belden.com/patents . |

Construction Details

Conductor

| Element Description | Element | No. of Elements | Size | Stranding | Material |
|---------------------|--------------|-----------------|--------|-----------|------------------|
| Card Reader | Conductor(s) | 6 | 22 AWG | 7x30 | BC - Bare Copper |
| Door Contact | Conductor(s) | 4 | 22 AWG | 7x30 | BC - Bare Copper |
| REX/Spare | Conductor(s) | 4 | 22 AWG | 7x30 | BC - Bare Copper |
| Lock Power | Conductor(s) | 4 | 18 AWG | 7x26 | BC - Bare Copper |

Insulation

| Element Description | Element | Material | Nom. Thickness | Nom. Insulation Diameter | Color Code |
|---------------------|--------------|--------------------------|--------------------|--------------------------|---------------------------------------|
| Card Reader | Conductor(s) | PVC - Polyvinyl Chloride | 0.009 in (0.23 mm) | 0.047 in (1.2 mm) | Black, Red, White, Green, Brown, Blue |
| Door Contact | Conductor(s) | PVC - Polyvinyl Chloride | 0.009 in (0.23 mm) | 0.064 in (1.6 mm) | Black, Red, White, Green |
| REX/Spare | Conductor(s) | PVC - Polyvinyl Chloride | 0.009 in (0.23 mm) | 0.064 in (1.6 mm) | Black, Red, White, Green |
| Lock Power | Conductor(s) | PVC - Polyvinyl Chloride | 0.010 in (0.25 mm) | 0.047 in (1.2 mm) | |

Inner Shield

| Element Description | Element | Shield Type | Material | Coverage | Drainwire Type |
|---------------------|--------------|-------------|-------------------------|----------|------------------|
| Card Reader | Conductor(s) | Tape | Bi-Laminate (Alum+Poly) | 100% | 24 AWG (7x32) TC |
| Door Contact | Conductor(s) | No Shield | | | |
| REX/Spare | Conductor(s) | No Shield | | | |
| Lock Power | Conductor(s) | No Shield | | | |

Inner Jacket

| Element Description | Element | Material | Nom. Thickness | Nom. Diameter | Ripcord | Color |
|---------------------|--------------|--------------------------|--------------------|--------------------|---------|--------|
| Card Reader | Conductor(s) | PVC - Polyvinyl Chloride | 0.017 in (0.43 mm) | 0.179 in (4.55 mm) | Yes | Orange |
| Door Contact | Conductor(s) | PVC - Polyvinyl Chloride | 0.017 in (0.43 mm) | 0.147 in (3.73 mm) | Yes | White |
| REX/Spare | Conductor(s) | PVC - Polyvinyl Chloride | 0.017 in (0.43 mm) | 0.147 in (3.73 mm) | Yes | Blue |
| Lock Power | Conductor(s) | PVC - Polyvinyl Chloride | 0.017 in (0.43 mm) | 0.19 in (4.8 mm) | Yes | Gray |

Outer Jacket

| Nom. Diameter |
|--------------------|
| 0.401 in (10.2 mm) |

| | |
|-----------------------------------|--------------------|
| Table Notes: | Banana Peel® |
| Overall Cable Diameter (Nominal): | 0.401 in (10.2 mm) |

Electrical Characteristics

Electricals

| Element Description | Element | Nom. Conductor DCR | Nom. Inner Shield DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Shield | Nom. Capacitance Cond-to-Other (Conds + Shield) | Max. Current |
|---------------------|--------------|-------------------------------|---------------------------------|-------------------------------|---------------------------------|---|--------------------------------|
| Card Reader | Conductor(s) | 16.4 Ohm/1000ft | 16.19 Ohm/1000ft (53.12 Ohm/km) | 33 pF/ft (110 pF/m) | 60 pF/ft (200 pF/m) | | 2.2 Amps per Conductor at 25°C |
| Door Contact | Conductor(s) | 16.4 Ohm/1000ft (53.8 Ohm/km) | | 25 pF/ft (82 pF/m) | 60 pF/ft (200 pF/m) | | 2.2 Amps per Conductor at 25°C |
| REX/Spare | Conductor(s) | 16.4 Ohm/1000ft (53.8 Ohm/km) | | 25 pF/ft (82 pF/m) | | | 2.2 Amps per Conductor at 25°C |
| Lock Power | Conductor(s) | 6.5 Ohm/1000ft (21 Ohm/km) | | 30 pF/ft (98 pF/m) | | 60 pF/ft (200 pF/m) | 4 Amps per Conductor at 25°C |

Voltage

| UL Voltage Rating |
|-------------------|
| 300 V (CMP) |

Mechanical Characteristics

Temperature

| UL Temperature | Operating |
|----------------|--------------|
| 75°C | 0°C to +75°C |

Bend Radius

| Stationary Min. | Installation Min. |
|------------------|-------------------|
| 4.01 in (102 mm) | 4.01 in (102 mm) |

| | |
|--------------------|-------------------|
| Max. Pull Tension: | 213 lbs (96.6 kg) |
| Bulk Cable Weight: | 94 lbs/1000ft |

Standards and Compliance

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|----------------------------------|---|
| Environmental Suitability: | Indoor - Plenum, Indoor |
| Sustainability: | Product Lens™, Environmental Product Declaration (EPD) Available |
| Flammability / Reaction to Fire: | NFPA 262, UL 910 (Plenum), FT6 |
| CPR Compliance: | CPR Euroclass: Eca |
| NEC / UL Compliance: | Article 800, CMP |
| CEC / C(UL) Compliance: | CMP |
| European Directive Compliance: | EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| UK Regulation Compliance: | UKCA Mark |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |
| Non-Plenum Number: | 558GMS |

Product Notes

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| Notes: | Cold environment installation: When installing cables that have been stored at ambient temperatures of 32 degrees Fahrenheit (0 degrees Centigrade) or lower, Belden recommends conditioning of the cable for 12 hours at room temperature prior to individual cable leg separation. |
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History

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| Update and Revision: | Revision Number: 0.487 Revision Date: 11-27-2023 |
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Part Numbers

Variants

| Item # | Color | Putup Type | Length | UPC | Footnote |
|----------------|---------------------------|------------|----------|--------------|----------|
| 658GMS 0001000 | Orange, White, Blue, Gray | Reel | 1,000 ft | 612825178668 | C |

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