



Belden 4K Ultra-High-Definition (UHD) Coax Cables for 12G-SDI coaxial solutions maximize 4K signal transmission distance on a single coax, minimizing weight and space utilization compared to dual- or quad-link configurations.



BENEFITS

- 12G-SDI cables offer a guaranteed 15 dB return loss limit from 4.5 to 12 GHz for 8-11 dB headroom against SMPTE limit
- Inner foil bonded to the core on 12G-SDI cables for easier installation with one-piece compression connectors



KEY APPLICATIONS

- SMPTE 2082-1 12G-SDI 4K D-Cinema, UHDTV1, UHDTV2
- SMPTE 2081-1 6G-SDI 4K D-Cinema, UHDTV1, UHDTV2
- Proven interoperability with leading chipset manufacturers

12G-SDI Coax Cables and Connectors

Riser

Product Attributes

- Custom-drawn, solid silver-plated copper conductor
- New custom mixed formula for gas-injected foam high-density polyethylene insulation
- PVC jacket
- 75 Ω impedance
- UL rated for CMR
- C(UL) CMG FT4

Plenum

Product Attributes

- Custom-drawn, solid silver-plated copper conductor
- UL rated for CMP
- C(UL) CMP FT6

12 GHz BNC Connectors

1-Piece Compression

BNC Connector Part Number	Description	Part Number	
		Compression Tool	Strip Tool
4855RBUHD1	Mini RG-59	CPLCRBC-BR	PS59/6/RGB
4505RBUHD1	RG-59	CPLCRBC-BR	PSA59/6
4694RBUHD1	RG-6	CPLCRBC-BR	PSA59/6
4794RBUHD1	Series 7	CPLCRBC1794	PS-11

Type	AWG	Shield	Nominal OD		Part Number
			in	mm	
Mini RG-59	23	Foil + 95% TC Braid	0.16	4.04	4855R
RG-59	20	Foil + 95% TC Braid	0.23	5.92	4505R
RG-6	18	Foil + 95% TC Braid	0.27	6.96	4694R
Series 7	16	Foil + 95% TC Braid + Foil*	0.32	8.13	4794R
RG-11	14	Foil + 95% TC Braid + Foil*	0.40	10.16	4731R

Also available in pre-terminated, custom assemblies.
Standard jacket colors: Black, Red, Orange, Green, Blue and Violet
*Outer foil bonded to jacket for easy stripping

Type	AWG	Shield	Nominal OD		Part Number
			in	mm	
RG-6	18	Foil + 95% TC Braid	0.23	5.82	4694P

3-Piece Crimp

BNC Connector Part Number	Description	Part Number	
		Crimp Tool	Strip Tool
4855RBUHD3	Mini RG-59		
4505RBUHD3	RG-59	BB3PHCT	BB3PST
4694RBUHD3	RG-6		
4794RBUHD3*	Series 7	-	-
4731RBUHD3*	RG-11	-	-

*Use Kings crimp tool KTH-1000
Kings die KTH-2260 for Series 7
Kings die KTH-2004 for RG-11

6G-SDI Coax Cables and Connectors

Riser

Product Attributes

- Solid bare copper conductor
- Gas-injected foam high-density polyethylene insulation
- 75 Ω impedance
- UL rated for CMR
- C(UL) CMG FT4

Type	AWG	Shield	Nominal OD		Part Number
			in	mm	
Ultra-miniature	28.5	Foil + 95% TC Braid	0.10	2.54	179DT
Mini RG-59	23	Foil + 95% TC Braid	0.16	4.04	1855A
RG-59	20	Foil + 95% TC Braid	0.23	5.92	1505A*
RG-6	18	Foil + 95% TC Braid	0.27	6.96	1694A*
RG-6 Stadium	18	Foil + 95% TC Braid	0.27	6.96	1694RW**
Series 7	16	Foil + 95% TC Braid + Foil	0.32	8.13	1794A
RG-11	14	Foil + 95% TC Braid	0.40	10.16	7731A
RG-11 Stadium	14	Foil + 95% TC Braid	0.40	10.16	7731RW**

*Flexible cables 1505F and 1694F rated to 6 GHz
 **Stadium cables are riser rated and water blocked

Video Snake Cables

Individual Coax	Bundles						
	3	4	5	6	10	12	16
1855A	7787A	7788A	7789A	7790A	7791A	7792A	2178A
1505A	7794A	7795A	7796A	–	7798A	–	–
1694A	7710A	7711A	7712A	–	7713A	–	–
1794A	–	–	2177A	–	–	–	–

Plenum

Product Attributes

- Solid bare copper conductor
- Gas-injected foam FEP insulation
- 75 Ω impedance
- UL rated for CMP
- C(UL) CMP FT6

Type	Jacket	AWG	Shield	Nominal OD		Part Number
				in	mm	
Mini RG-59	Flamarrest®	23	Foil + 95% TC Braid	0.16	4.04	1855P
RG-59	Flamarrest®	20	Foil + 95% TC Braid	0.20	4.98	1506A
RG-6	Flamarrest®	18	Foil + 95% TC Braid	0.23	5.82	1695A
RG-11	Fluorocopolymer	14	Foil + 95% TC Braid	0.35	8.84	7732A

6 GHz BNC Connectors

1-Piece Compression

BNC Connector Part Number	Description	Part Number	
		Compression Tool	Strip Tool
179DTBHD1	Ultra-Miniature	CPLCRBC-BR	PS59/6/RGB
1855ABHD1*	Mini RG-59		
1505ABHD1	RG-59	CPLCRBC-BR	PSA59/6
1694ABHD1	RG-6		
1794ABHD1	Series 7	CPLCRBC1794	PS-11

*This connector can be used with a plenum cable.

3-Piece Crimp

BNC Connector Part Number	Description	Part Number	
		Crimp Tool	Strip Tool
179DTBHD3	Ultra-Miniature		
1855ABHD3*	Mini RG-59	BB3PHCT	BB3PST
1505ABHD3*	RG-59		
1694ABHD3*	RG-6		

*This connector can be used with a plenum cable.

To download our distance chart, visit
info.belden.com/4k-coax
 or call **1.800.BELDEN.1 (800.235.3361)**

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