

4K Ultra-High-Definition (UHD) Coax Cables and Connectors for 12G-SDI

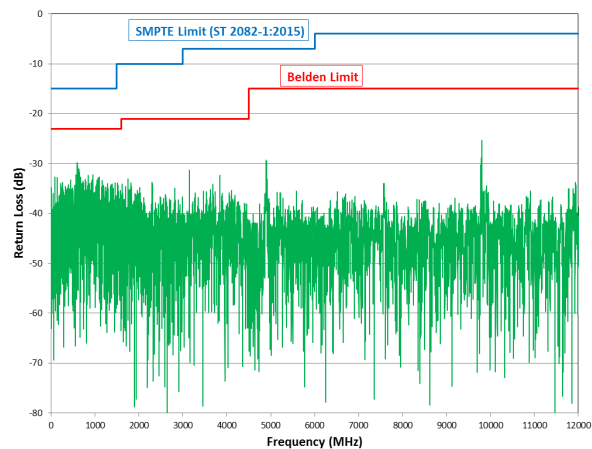
PRODUCT BULLETIN 



Belden 4K UHD Coax Cables for 12G-SDI maximize 4K signal transmission distance over a single coax, minimizing weight and space utilization compared to multi-link solutions. Full breadth of portfolio allows for flexibility in various applications and environments.

4794R Return Loss

Engineered specifically to optimize transmission distance, Belden 4794R exceeds the SMPTE Return Loss (RL) specifications for UHD TV providing significant headroom and guaranteeing -15 dB RL from 4.5 to 12GHz.



Benefits at a Glance

- SMPTE ST 2082-1 12G-SDI 4K D-Cinema, UHDTV1, UHDTV2
- Significant cable headroom guarantees -15 dB return loss (RL) from 4.5 GHz to 12 GHz
- SMPTE ST 2081-1 6G-SDI 4K D-Cinema, UHDTV1, UHDTV2
- Backward compatible with earlier SMPTE standards
- Saves up to 75% in stocking, pulling and termination costs
- Pre-terminated assemblies are 100% tested for quality assurance

Key Applications

- Broadcast studios
- OB trucks
- Stadiums & venues
- Indoor/outdoor environments

Key Features

Cable

- Solid silver-plated copper conductors offer excellent RL and transmission of high-frequency signals
- Tri-shield on larger cables for maximum transmission distance
- Inner foil is bonded to the cable core for improved RL performance and connector installation

Connector

- 1-piece compression, 3-piece crimp, locking or waterblocked
- Easy identification with colored connector bands
- Better gripping with patented design
- Properly seated center conductor with non-blind entry
- Excellent holding strength with internal 360 compression rings
- Locking BNC connectors maintain cable-to-connector alignment with screw-lock collars
- NEW Micro BNC Connectors
 - » Available for RG-6, RG-59, Mini RG-59, and Series 7 cables
 - » 4X panel density with 51% size reduction from standard BNC
 - » 4K UHD 12GHz capable & 6GHz compatibility

Ordering Information

12G-SDI Coax Cables

Cable Description	AWG	Cable			
		Riser	Plenum	CM	LSZH-CPR
Mini RG-59	23	4855R	—	—	4855ANH
Mini RG-59 Plenum	23	—	4855P	—	—
RG-59	20	4505R	—	—	4505ANH
RG-59 Plenum	20	—	4505P	—	—
RG-6	18	4694R	4694P	—	4694ANH
RG-6 Flexible	18	—	—	4694F	—
Series 7	16	4794R	—	—	4794ANH
Series 7 Plenum	16	—	4794P	—	—
RG-11	14	4731R	4731P	—	4731ANH

12G-SDI VideoFlex® Snake Cables

Cable Description	Individual Coax	Bundles						
		3	4	5	6	10	12	16
Mini RG-59	4855R	—	—	4855RX5	—	4855R10	—	4855R16
RG-59	4505R	—	—	4505RX5	—	—	—	—
RG-6	4694R	—	—	4694RX5	—	—	—	—
Series 7	4794R	—	—	4794RX5	—	—	—	—

Standard jacket colors: black, red, orange, green, blue and violet. Some cables also offered in white or yellow. *These tools are Kings-WIN® brand.

12G-SDI Coax Connectors

Cable Description	1-Piece Compression			3-Piece Crimp			3-Piece Micro BNC		
	BNC Connector	Compression Tool	Strip Tool	BNC Connector	BNC Crimp Tool	Strip Tool	BNC Connector	Micro BNC Crimp Tool	Strip Tool
Mini RG-59	4855RBUHD1	CPLCRBC-BR	PS59/6/RGB	4855RBUHD3	BB3PHCT	PA1248ST	4855RMBUHD3	BB3PHCTD6	PA1248ST
Mini RG-59 Plenum	—	—	—	4855RBUHD3	BB3PHCT	PA1248ST	4855RMBUHD3	BB3PHCTD6	PA1248ST
RG-59	4505RBUHD1	CPLCRBC-BR	PSA/59/6	4505RBUHD3	BB3PHCT	PA1248ST	4505RMBUHD3	BB3PHCTD6	PA1248ST
RG-59 Plenum	—	—	—	4505RBUHD3	BB3PHCT	PA1248ST	4505RMBUHD3	BB3PHCTD6	PA1248ST
RG-6	4694RBUHD1	CPLCRBC-BR	PSA/59/6	4694RBUHD3	BB3PHCT	PA1248ST	4694RMBUHD3	BB3PHCTD6	PA1248ST
RG-6 Flexible	—	—	—	4694RBUHD3	BB3PHCT	PA1248ST	4694RMBUHD3	BB3PHCTD6	PA1248ST
Series 7	4794RBUHD1	CPLCRBCI794	PS11	4794RBUHD3	KTH-1000*; Die KTH-2010*	—	4794RMBUHD3	BB3PHCTD5	—
Series 7 Plenum	—	4794P	—	4794RBUHD3	KTH-1000*; Die KTH-2010*	—	4794RMBUHD3	BB3PHCTD5	—
RG-11	4731R	4731P	—	4731RBUHD3	KTH-1000*; Die KTH-2010*; Die KTH-2041*	—	—	—	—

6G-SDI Coax Cables

Cable Description	AWG	Cable			
		Riser	Plenum	CM	Non-UL
Ultra-miniature	28.5	179DT	—	—	—
Mini RG-59	23	1855A	1855P	—	—
RG-59	20	1505A	—	—	—
RG-59 Plenum	20	—	1506A	—	—
RG-59 Flexible	20	—	—	1505F	—
RG-6	18	1694A	—	—	—
RG-6 Plenum	18	—	1695A	—	—
RG-6 Flexible	18	—	—	1694F	—
RG-6 Waterblocked	18	1694RW	—	—	1694WB
Series 7	16	1794A	—	—	—
RG-11	14	7731A	7732A	—	—
RG-11 Waterblocked	14	7731RW	4505R	4505R	7731WB

6G-SDI VideoFlex® Snake Cables

Cable Description	Individual Coax	Bundles						
		3	4	5	6	10	12	16
Mini RG-59	1855A	7787A	7788A	7789A	7790A	7791A	7792A	2178A
RG-59	1505A	7794A	7795A	7796A	—	7798A	—	—
RG-6	1694A	7710A	7711A	7712A	—	7713A	—	—
Series 7	1794A	—	—	2177A	—	—	—	—

Standard jacket colors: black, red, orange, green, blue and violet. Some cables also offered in white or yellow. *These tools are Kings-WIN® brand.

6G-SDI Coax Connectors

Cable Description	1-Piece Compression				3-Piece Crimp			3-Piece Micro BNC		
	BNC Connector	BNC Locking Connector	Compression Tool	Strip Tool	BNC Connector	BNC Crimp Tool	Strip Tool	BNC Connector	Micro BNC Crimp Tool	Strip Tool
Ultra-miniature	179DTBHD1	179DTBHD1	CPLCRBC-BR	PS59/6/RGB	179DTBHD3	BB3PHCT	PA1248ST	4855RMBUHD3	BB3PHCTD6	PA1248ST
Mini RG-59	1855ABHD1	1855ABHD1	CPLCRBC-BR	PS59/6/RGB	1855ABHD3	BB3PHCT	PA1248ST	4855RMBUHD3	BB3PHCTD6	PA1248ST
RG-59	1505ABHD1	1505ABHD1	CPLCRBC-BR	PSA/59/6	1505ABHD3	BB3PHCT	PA1248ST	4505RMBUHD3	BB3PHCTD6	PA1248ST
RG-59 Plenum	1506ABHD1	1506ABHD1	CPLCRBC-BR	PSA/59/6	1505ABHD3	BB3PHCT	PA1248ST	4505RMBUHD3	BB3PHCTD6	PA1248ST
RG-59 Flexible	—	—	—	—	1505ABHD3	BB3PHCT	PA1248ST	4694RMBUHD3	BB3PHCTD6	PA1248ST
RG-6	1694ABHD1	1694ABHD1	CPLCRBC-BR	PSA/59/6	1694ABHD3	BB3PHCT	PA1248ST	4694RMBUHD3	BB3PHCTD6	PA1248ST
RG-6 Plenum	1695ABHD1	1695ABHD1	CPLCRBC-BR	PSA/59/6	1694ABHD3	BB3PHCT	PA1248ST	4794RMBUHD3	BB3PHCTD5	—
RG-6 Flexible	—	—	—	—	1694ABHD3	BB3PHCT	PA1248ST	4794RMBUHD3	BB3PHCTD5	—
RG-6 Waterblocked	1694ABHD1	1694ABHD1 or 1694ABHDLW	CPLCRBC-BR	PSA/59/6	1694ABHD3	BB3PHCT	PA1248ST	—	—	—
Series 7	1794ABHD1	—	CPLCRBC1794	PS11	4794RMBUHD3	KTH-1000*; Die KTH-2010*	—	—	—	—
RG-11	—	—	—	—	4731RMBUHD3	KTH-1000*; Die KTH-2041*	—	—	—	—
RG-11 Waterblocked	—	—	—	—	4731RMBUHD3	KTH-1000*; Die KTH-2041*	—	—	—	—