Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



7710A Coax - RG-6/U Type

For more Information please call

1-800-Belden1



General Description:

RG-6/U type, 18 AWG solid .040" bare copper conductors, gas-injected foam HDPE insulation, Duofoil® + tinned copper braid shield (95% coverage), overall PVC jacket.

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Usage (Overall)

Suitable Applications:

SMPTE 2081-1 6 Gb/s UHDTV, SMPTE 424M 3 Gb/s HD-SDI 1080p, SDI/HDTV Digital Video, High Definition (HD), Standard Definition (SDI)

Physical Characteristics (Overall)

Conductor

AWG:



Total Number of Conductors:

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
Gas-injected FHDPE - Foam High Density Polyethylene	4.572

Inner Shield

Inner Shield Material:

ı	Layer #	Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)
	1	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
ľ	2		Braid	TC - Tinned Copper	95

Inner Jacket

Inner Jacket Material:

Inner Jacket Material	Nom. Dia. (mm)
PVC - Polyvinyl Chloride	6.985

Inner Jacket Color Code Chart:

Number	Color
1	Red
2	Green
3	Blue

Outer Jacket

Outer Jacket Material:

Outer Jacket Material PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter: 18.948 mm

Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +75°C
UL Temperature Rating:	60°C
Non-UL Temperature Rating:	75°C
Bulk Cable Weight:	361.633 Kg/Km
Max. Recommended Pulling Tension:	920.777 N
Min. Bend Radius/Minor Axis:	203.200 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMG

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AWM Specification:	UL Style 1354 (each coax); UL Style 2688 (overall)		
EU Directive 2011/65/EU (ROHS II):	Yes		
EU CE Mark:	No		
EU Directive 2000/53/EC (ELV):	Yes		
EU Directive 2002/95/EC (RoHS):	Yes		
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004		
EU Directive 2002/96/EC (WEEE):	Yes		
EU Directive 2003/11/EC (BFR):	Yes		
CA Prop 65 (CJ for Wire & Cable):	Yes		
MII Order #39 (China RoHS):	Yes		
RG Type:	6/U		
ne Test			
UL Flame Test:	UL1666 Vertical Shaft		
ability			
Suitability - Indoor:	Yes		
Suitability - Outdoor:	Yes - Black only.		
Suitability - Burial:	No		
um/Non-Plenum			
Plenum (Y/N):	No		
	AWM Specification: EU Directive 2011/65/EU (ROHS II): EU CE Mark: EU Directive 2000/53/EC (ELV): EU Directive 2002/95/EC (RoHS): EU RoHS Compliance Date (mm/dd/yyyy): EU Directive 2002/96/EC (WEEE): EU Directive 2003/11/EC (BFR): CA Prop 65 (CJ for Wire & Cable): MII Order #39 (China RoHS): RG Type: ne Test UL Flame Test: ability Suitability - Outdoor: Suitability - Outdoor: Suitability - Burial: num/Non-Plenum Plenum (Y/N):		

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:



Nom. Capacitance Conductor to Shield:



Nominal Velocity of Propagation:



Nominal Delay:



Nom. Conductor DC Resistance:



Nom. Inner Shield DC Resistance:



Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1.000	0.787
3.580	1.444
5.000	1.706
7.000	2.001
10.000	2.330
67.500	5.414
71.500	5.545
88.500	6.103
100.000	6.398
135.000	7.349
143.000	7.546
180.000	8.432
270.000	10.401
360.000	12.107
540.000	15.093
720.000	17.652
750.000	18.046
1000.000	21.064

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7710A Coax - RG-6/U Type

1500.000	26.215
2000.000	30.743
2250.000	32.843
3000.000	38.650
4500.000	48.231
6000.000	58.074

Max. Operating Voltage - UL:

Voltage 300 V RMS

Other Electrical Characteristic 1:

Return Loss: Fixed bridge and termination.

Minimum Structural Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
5.000	1600.000	23.000
1600.000	4500.000	21.000
4500.000	6000.000	15.000

Sweep Test

Sweep Testing:

Sweep tested 5 MHz to 6 GHz

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7710A B591000	1,000 FT	268.000 LB	BLACK, MATTE	С	3 #18 PE SH PVC FRTPE
7710A B59500	500 FT	140.500 LB	BLACK, MATTE	С	3 #18 PE SH PVC FRTPE

Notes: C = CRATE REEL PUT-UP.

Revision Number: 6 Revision Date: 04-14-2017

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