METRIC MEASUREMENT VERSION



7711A 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.

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:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
4	18	Solid	BC - Bare Copper	1.016

Total Number of Conductors: 4

Insulation

Insulation Material:

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

Inner Shield

Inner Shield Material:

Layer #	Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)
1	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
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
4	White

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter: 22.860 mm

Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +75°C
UL Temperature Rating:	60°C
Non-UL Temperature Rating:	75°C

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461.342 Kg/Km
1227.700 N
228.600 mm
-

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

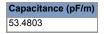
Applicable Standards & Environmental Prog	rams			
NEC/(UL) Specification:	CMR			
CEC/C(UL) Specification:	CMR			
AWM Specification:	UL Style 1354 (each coax); UL Style 2688 (overall)			
EU Directive 2011/65/EU (ROHS II):	Yes			
EU CE Mark:	No			
EU Directive 2000/53/EC (ELV):	Yes			
EU Directive 2002/95/EC (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 Yes			
CA Prop 65 (CJ for Wire & Cable):				
MII Order #39 (China RoHS):	Yes			
RG Type:	6/U			
Flame Test				
CSA Flame Test:	FT4			
Suitability				
Suitability - Indoor:	Yes			
Suitability - Outdoor:	Yes - Black only.			
Suitability - Burial:	No			
Plenum/Non-Plenum				
Plenum (Y/N):	No			

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:



Nom. Capacitance Conductor to Shield:



Nominal Velocity of Propagation:



Nominal Delay:



Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 20.9984

Nom. Inner Shield DC Resistance:

DCR @ 20°C ((Ohm/km)
9.843	

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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
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
7711A B591000	1,000 FT	350.000 LB	BLACK, MATTE	С	4 #18 PE SH PVC FRTPE
7711A B59500	500 FT	171.000 LB	BLACK, MATTE	С	4 #18 PE SH PVC FRTPE

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 7 Revision Date: 04-14-2017

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