## **Detailed Specifications & Technical Data**

#### **ENGLISH MEASUREMENT VERSION**



#### 7791A Coax - Bundled Miniature

For more Information please call

1-800-Belden1



### **General Description:**

Miniature, 23 AWG solid .023" bare copper conductors, solid copper, gas-injected foam HDPE insulation, Duofoil® + tinned copper braid shield (95% coverage), overall PVC jacket.

#### Usage (Overall)

Suitable Applications:

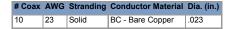
SMPTE 2081-1 6 Gb/s UHDTV, SMPTE 424M 3 Gb/s HD-SDI 1080p, SDI/HDTV Digital Video, High

Definition (HD), Standard Definition (SDI)

#### **Physical Characteristics (Overall)**

#### Conductor

AWG:



**Total Number of Conductors:** 

10

#### Insulation Material:

Insulation Material	Dia. (in.)
Gas-injected FHDPE - Foam High Density Polyethylene	.102

#### Inner Shield

#### Inner Shield Material:

Layer #	ayer # 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. (in.)
PVC - Polyvinyl Chloride	.159

#### Inner Jacket Color Code Chart:

Number	Color
1	Red
2	Green
3	Blue
4	White
5	Yellow
6	Brown
7	Orange
8	Gray
9	Purple
10	Black

#### **Outer Jacket**

#### Outer Jacket Material:

**Outer Jacket Material** PVC - Polyvinyl Chloride

#### **Overall Cable**

**Overall Nominal Diameter:** 0.796 in.

Mechanical Characteristics (Overall)					
	Operating Temperature Range:	-35°C To +75°C			
	Bulk Cable Weight:	279 lbs/1000 ft.			
	Max. Recommended Pulling Tension:	360 lbs.			
	Min. Bend Radius/Minor Axis:	8 in.			

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# **Detailed Specifications & Technical Data**





### 7791A Coax - Bundled Miniature

pplicable Standards & Environmental Programs	
NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMG
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes
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:	Mini
ame Test	
UL Flame Test:	UL1666 Vertical Shaft
uitability	
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes - Black only.
Suitability - Burial:	No
lenum/Non-Plenum	
Plenum (Y/N):	No

#### **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:



Nom. Inductance:

Inductance (µH/ft) 0.106

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
16.5

Nominal Velocity of Propagation:

**VP (%)** 83

Nominal Delay:

Delay (ns/ft)

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 20.1

Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 7.6

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1.000	0.400
3.600	0.800
10.000	1.200
71.500	3.100
135.000	3.800
270.000	5.400
360.000	6.200
540.000	7.700
720.000	9.100
750.000	9.500

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## **Detailed Specifications & Technical Data**

#### **ENGLISH MEASUREMENT VERSION**



#### 7791A Coax - Bundled Miniature

1000.000	10.500
1500.000	13.000
2500.000	16.900
3000.000	18.500
4500.000	24.600
6000.000	28.970

Max. Operating Voltage - UL:

Voltage 300 V RMS

Other Electrical Characteristic 1:

Return Loss: Fixed bridge and termination

#### Minimum Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (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
7791A B591000	1,000 FT	321.000 LB	BLACK, MATTE	С	10 #23 PE/GIFHDPE SH PVC PVC
7791A B59500	500 FT	154.500 LB	BLACK, MATTE	С	10 #23 PE/GIFHDPE SH PVC PVC

Notes: C = CRATE REEL PUT-UP.

Revision Number: 3 Revision Date: 04-14-2017

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Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).

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