

## 7790A Coax - Bundled Miniature

 	<p>For more information please call <b>1-800-Belden1</b></p> <p><u>See Put-ups and Colors</u></p>
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### 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.

### PHYSICAL CHARACTERISTICS:

#### CONDUCTOR:

Number of Coax	6
Total Number of Conductors	6
RG Type	Mini
AWG	23
Stranding	Solid
Conductor Diameter	.023 in.
Conductor Material	BC - Bare Copper

#### INSULATION:

Insulation Material	Gas-injected FHDPE - Foam High Density Polyethylene
Insulation Diameter	.102 in.

#### INNER SHIELD:

Inner Shield Material Trade Name	Duofoil®
Inner Shield Type	Tape/Braid

#### Inner Shield Material :

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

Inner Shield % Coverage	100 %
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#### INNER JACKET:

Inner Jacket Material	PVC - Polyvinyl Chloride
Inner Jacket Diameter	.159 in.

#### Inner Jacket Color Code Chart :

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Number	Color
1	Red
2	Green
3	Blue
4	White
5	Yellow
6	Brown

### OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride
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### OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.597 in.
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### MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-35°C To +75°C
UL Temperature Rating	60°C
Non-UL Temperature Rating	75°C
Bulk Cable Weight	163 lbs/1000 ft.
Max. Recommended Pulling Tension	216 lbs.
Min. Bend Radius (Install)	6 in.

### APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

#### APPLICABLE STANDARDS:

NEC/(UL) Specification	CMR
CEC/C(UL) Specification	CMG
EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004

### FLAME TEST:

UL Flame Test	UL1666 Vertical Shaft
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### SWEEP TEST:

Sweep Testing	Sweep tested 5 MHz to 3 GHz.
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### SUITABILITY:

Suitability - Indoor	Yes
Suitability - Outdoor	Yes
Suggested Connectors	Kings 2065-11-9 75 Ohm BNC, each coax

### PLENUM/NON-PLENUM:

Plenum (Y/N)	N
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### ELECTRICAL CHARACTERISTICS:

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Nom. Characteristic Impedance	75 Ohms
Nom. Inductance	0.106 $\mu$ H/ft
Nom. Capacitance Conductor to Shield	16.5 pF/ft
Nominal Velocity of Propagation	83 %
Nominal Delay	1.24 ns/ft
Nom. Conductor DC Resistance @ 20 Deg. C	20.1 Ohms/1000 ft
Nom. Inner Shield DC Resistance	7.6 Ohms/1000 ft

### Minimum Return Loss :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Minimum Return Loss (dB)
		5	650	23
		650	725	15
		725	850	23
		850	3000	15

### Nom. Attenuation :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
	1			0.4
	3.6			0.8
	10			1.2
	71.5			3.1
	135			3.8
	270			5.4
	360			6.2
	540			7.7
	720			9.1
	750			9.5
	1000			10.5
	1500			13.0
	2500			16.9
	3000			18.5

Max. Operating Voltage - UL 300 V RMS

Other Electrical Characteristic 1 Impedance tested in accordance with ASTM D-4566 paragraph 43.2, option 2 using a 75 Ohm fixed bridge and termination.

Other Electrical Characteristic 2 Return Loss Tested in Accordance With ASTM D-4566 Paragraph 45.3, Using a 75 Ohm Fixed Bridge and Termination.

### PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
7790A B591000	6 #23 PE/GIFHDPE SH PVC PVC	1000	176	BLACK, MATTE	C
7790A B59500	6 #23 PE/GIFHDPE SH PVC PVC	500	88.5	BLACK, MATTE	C

C = CRATE REEL PUT-UP.

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