

## 8218 Coax - 75 Ohm Miniature Coax

 	<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:

27 AWG stranded (7x35) .017" bare copper-covered steel conductor, polyethylene insulation, tinned copper braid shield (93% coverage), PVC jacket.

### PHYSICAL CHARACTERISTICS:

#### CONDUCTOR:

Number of Coax	1
Total Number of Conductors	1
AWG	27
Stranding	7x35
Conductor Diameter	.017 in.
Conductor Material	BCCS - Bare Copper Covered Steel

#### INSULATION:

Insulation Material	PE - Polyethylene
Insulation Diameter	.100 in.

#### OUTER SHIELD:

Outer Shield Type	Braid
Outer Shield Material	TC - Tinned Copper
Outer Shield % Coverage	93 %

#### OUTER JACKET:

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

Overall Nominal Diameter	.150 in.
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### MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-40°C To +60°C
UL Temperature Rating	60°C (UL AWM Style 1354)
Bulk Cable Weight	14 lbs/1000 ft.
Max. Recommended Pulling Tension	32 lbs.
Min. Bend Radius (Install)	2 in.

### APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

### APPLICABLE STANDARDS:

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AWM Specification	UL Style 1354 (30 V 60°C)
EU CE Mark (Y/N)	No
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004

### PLENUM/NON-PLENUM:

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

Nom. Characteristic Impedance	75 Ohms
Nom. Inductance	.115 µH/ft
Nom. Capacitance Conductor to Shield	20.5 pF/ft
Nominal Velocity of Propagation	66 %
Nominal Delay	1.54 ns/ft
Nom. Conductor DC Resistance @ 20 Deg. C	120 Ohms/1000 ft
Nominal Outer Shield DC Resistance @ 20°C	5.7 Ohms/1000 ft
Nom. Attenuation :	

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
	1			1.2
	10			2.4
	50			4.2
	100			5.7
	200			8.3
	400			12.1
	700			16.5
	900			19.0
	1000			20.0

Max. Operating Voltage - UL	30 V RMS (UL AWM Style 1354)
Max. Operating Voltage - Non-UL	1700 V RMS

### PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
8218 0101000	75 OHM COAX	1000	14	BLACK	C
8218 010500	75 OHM COAX	500	8	BLACK	
8218 010U1000	75 OHM COAX	U1000	16	BLACK	
8218 010U500	75 OHM COAX	U500	8.5	BLACK	

C = CRATE REEL PUT-UP.

Revision Number: 1      Revision Date: 08-18-2005

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