

## 9248 Coax - 75 Ohm 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:

18 AWG solid .040" bare copper conductor, gas-injected foam HDPE insulation, Duofoil® + tinned copper braid shield (60% coverage), PVC jacket.

### PHYSICAL CHARACTERISTICS:

#### CONDUCTOR:

Number of Coax	1
Total Number of Conductors	1
RG Type	6/U
AWG	18
Stranding	Solid
Conductor Diameter	.040 in.
Conductor Material	BC - Bare Copper

#### INSULATION:

Insulation Material	Gas-injected FHDPE - Foam High Density Polyethylene
Insulation Diameter	.180 in.

#### OUTER SHIELD:

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

#### Outer Shield Material :

Layer Number	Trade Name	Type	Material	% Coverage (%)
1	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	TC - Tinned Copper	60

Outer Shield % Coverage	100 %
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#### OUTER JACKET:

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

Overall Nominal Diameter	.270 in.
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#### MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-40°C To +80°C
UL Temperature Rating	80°C (UL AWM Style 1354)

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Bulk Cable Weight	30 lbs/1000 ft.
Max. Recommended Pulling Tension	44 lbs.
Min. Bend Radius (Install)	2.75 in.

### APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

#### APPLICABLE STANDARDS:

NEC/(UL) Specification	CM
CEC/C(UL) Specification	CM
AWM Specification	UL Style 1354 (30 V 80°C)
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	UL1685 UL Loading
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#### SUITABILITY:

Suitability - Indoor	Yes
Suitability - Outdoor	Yes

#### PLENUM/NON-PLENUM:

Plenum (Y/N)	N
Plenum Number	89248 and 82248

#### ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	75 Ohms
Nom. Inductance	.106 $\mu$ H/ft
Nom. Capacitance Conductor to Shield	16.2 pF/ft
Nominal Velocity of Propagation	82 %
Nominal Delay	1.24 ns/ft
Nom. Conductor DC Resistance @ 20 Deg. C	6.4 Ohms/1000 ft
Nominal Outer Shield DC Resistance @ 20°C	5.6 Ohms/1000 ft

#### Minimum Return Loss :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Minimum Return Loss (dB)
		5	450	23

Nom. Attenuation :

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Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
	1			.30
	5			.54
	10			.70
	50			1.5
	100			2.0
	200			2.8
	400			4.0
	700			5.3
	900			6.1
	1000			6.5
	1500			8.3

Max. Operating Voltage - UL

30 V RMS (UL AWM Style 1354); 300 V RMS (CM)

### PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
9248 0101000	#18 PE/GIFHDPE SH FRPVC	1000	35	BLACK	C
9248 0101640	#18 PE/GIFHDPE SH CORE	1640	39.36	BLACK	C
9248 0103280	#18 PE/GIFHDPE SH FRPVC	3280	42.64	BLACK	C
9248 010500	#18 PE/GIFHDPE SH FRPVC	500	33.5	BLACK	C
9248 010U1000	#18 PE/GIFHDPE SH FRPVC	U1000	35	BLACK	
9248 010U500	#18 PE/GIFHDPE SH FRPVC	U500	17.5	BLACK	

C = CRATE REEL PUT-UP.

Revision Number: 2

Revision Date: 02-10-2006

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