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1-800-Belden1



## General Description:

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

## Physical Characteristics (Overall)

### Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	18	Solid	BC - Bare Copper	.040

Total Number of Conductors: 1

### Insulation

Insulation Material:

Insulation Material	Dia. (in.)
Gas-injected FHDPE - Foam High Density Polyethylene	.180

### Outer Shield

Outer Shield Material:

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

### Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

### Overall Cable

Overall Nominal Diameter: 0.270 in.

## Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 1354)
Bulk Cable Weight:	35 lbs/1000 ft.
Max. Recommended Pulling Tension:	44 lbs.
Min. Bend Radius/Minor Axis:	2.750 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	CM
AWM Specification:	UL Style 1354 (30 V 80°C)
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:	6/U

**Flame Test**

UL Flame Test: UL1685 UL Loading

**Suitability**

Suitability - Indoor: Yes

Suitability - Outdoor: Yes

**Plenum/Non-Plenum**

Plenum Number: 89248 and 82248

**Electrical Characteristics (Overall)**

**Nom. Characteristic Impedance:**

Impedance (Ohm)  
75

**Nom. Inductance:**

Inductance (µH/ft)  
.106

**Nom. Capacitance Conductor to Shield:**

Capacitance (pF/ft)  
16.2

**Nominal Velocity of Propagation:**

VP (%)  
82

**Nominal Delay:**

Delay (ns/ft)  
1.24

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)  
6.4

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)  
5.6

**Nom. Attenuation:**

Freq. (MHz)	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:**

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

**Minimum Return Loss:**

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
		5	450	23

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9248 010U1000	1,000 FT	37.000 LB	BLACK		#18 PE/GIFHDPE SH FRPVC
9248 010U500	500 FT	19.000 LB	BLACK		#18 PE/GIFHDPE SH FRPVC
9248 0101000	1,000 FT	38.000 LB	BLACK	C	#18 PE/GIFHDPE SH FRPVC
9248 0101640	1,640 FT	63.960 LB	BLACK	C	#18 PE/GIFHDPE SH CORE
9248 0103280	3,280 FT	121.360 LB	BLACK	C	#18 PE/GIFHDPE SH FRPVC
9248 010500	500 FT	19.000 LB	BLACK	C	#18 PE/GIFHDPE SH FRPVC

**Notes:**

C = CRATE REEL PUT-UP.

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