

For more Information  
please call

1-800-Belden1



## 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

### 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 +75°C

UL Temperature Rating: 75°C

Bulk Cable Weight: 30 lbs/1000 ft.

Max. Recommended Pulling Tension: 44 lbs.

Min. Bend Radius (Install)/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 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

## Related Documents:

No related documents are available for this product

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9248 010U1000	1,000 FT	32.000 LB	BLACK		#18 PE/GIFHDPE SH FRPVC
9248 010U500	500 FT	16.500 LB	BLACK		#18 PE/GIFHDPE SH FRPVC
9248 0101000	1,000 FT	33.000 LB	BLACK	C	#18 PE/GIFHDPE SH FRPVC
9248 0101640	1,640 FT	55.760 LB	BLACK	C	#18 PE/GIFHDPE SH CORE
9248 0103280	3,280 FT	104.960 LB	BLACK	C	#18 PE/GIFHDPE SH FRPVC
9248 010500	500 FT	16.500 LB	BLACK	C	#18 PE/GIFHDPE SH FRPVC

**Notes:**

C = CRATE REEL PUT-UP.

Revision Number: 2    Revision Date: 04-02-2008

© 2012 Belden, Inc  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.