

**9248 Coax - 75 Ohm Coax**



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	0.040

**Insulation:**

Insulation Material

Ins Material	Dia. (in.)
Gas-injected FHDPE - Foam High Density Polyethylene	0.180

**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 Cabling:**

Overall Nominal Diameter: .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:	30 lbs/1000 ft.
Max. Recommended Pulling Tension:	44 lbs.
Min. Bend Radius (Install):	2.750 in.

**Applicable Specifications and Agency Compliance (Overall):**

**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
RG Type	6/U

**Flame Test:**

UL Flame Test UL1685 UL Loading

**9248 Coax - 75 Ohm Coax**

**Suitability:**

Suitability - Indoor Yes

Suitability - Outdoor Yes

**Plenum/Non-Plenum:**

Plenum (Y/N) N

Plenum Number 89248 and 82248

**Electrical Characteristics (Overall):**

Nom. Characteristic Impedance

Impedance (Ohm)
75.000

Nom. Inductance

Inductance (μH/ft)
0.106

Nom. Capacitance Conductor to Shield

Capacitance (pF/ft)
16.200

Nominal Velocity of Propagation

VP (%)
82

Nominal Delay

Delay (ns/ft)
1.240

Nom. Conductor DC Resistance

DCR @ 20°C (Ohm/1000 ft)
6.400

Nom. Attenuation

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Attenuation (dB/100 ft.)
	1.000			0.300
	5.000			0.540
	10.000			0.700
	50.000			1.500
	100.000			2.000
	200.000			2.800
	400.000			4.000
	700.000			5.300
	900.000			6.100
	1000.000			6.500
	1500.000			8.300

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)
		5.000	450.000	23.000

Nominal Outer Shield DC Resistance

DCR @ 20°C (Ohm/1000 ft)
5.600

**PUT UPS AND COLORS:**

Item #	Putup	Ship Weight	Jacket Color	Notes	Item Desc
9248 0101000	1,000 FT	33.000 LB	BLACK	C	#18 PE/GIFHDPE SH FRPVC BLK

**9248 Coax - 75 Ohm Coax**

9248 0101640	1,640 FT	55.760 LB	BLACK	C	#18 PE/GIFHDPE SH CORE BLK
9248 0103280	3,280 FT	108.240 LB	BLACK	C	#18 PE/GIFHDPE SH FRPVC BLK
9248 010500	500 FT	15.000 LB	BLACK	C	#18 PE/GIFHDPE SH FRPVC BLK
9248 010U1000	1,000 FT	32.000 LB	BLACK		#18 PE/GIFHDPE SH FRPVC BLK
9248 010U500	500 FT	16.500 LB	BLACK		#18 PE/GIFHDPE SH FRPVC BLK

**Notes:**

C = CRATE REEL PUT-UP.

Revision Number: 2    Revision Date: 05-14-2007

© 2007 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 the following environmental regulations: California Proposition 65 Consent Judgment For Wire & Cable Mfgs.(San Francisco Superior Court Nos. 312962 And 320342); EU RoHS (Directive 2002/95/EC, 27-Jan-2003); Material manufactured prior to the compliance date may still be in stock at Belden facilities and in our Distributor's inventory; and China Ministry of Information Industry order#39 (China RoHS). EU ELV (Directive 2000/53/EC, 18-Sept-2000); EU WEEE (Directive 2002/96/EC, 27-Jan-2003); EU BFR (Directive 2003/11/EC, 6-Feb-2003). 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 the 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.