

## 9248 Coax - 75 Ohm Coax



For more information please  
call

1-800-Belden1

See Put-ups and Colors

### 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 %
-------------------------	-------

#### OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride
-----------------------	--------------------------

#### OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.270 in.
--------------------------	----------

#### MECHANICAL CHARACTERISTICS:

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

## 9248 Coax - 75 Ohm Coax

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
---------------	-------------------

#### 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 µH/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 Deg.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 :

## 9248 Coax - 75 Ohm Coax

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 010U1000	#18 PE/GIFHDPE SH FRPVC	U1000	35	BLACK	
9248 010U500	#18 PE/GIFHDPE SH FRPVC	U500	17.5	BLACK	
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

C = CRATE REEL PUT-UP.

Revision Number: 2

Revision Date: 09-07-2006

---

**9248 Coax - 75 Ohm Coax**

---

© Copyright 2006 Belden, Inc  
All Rights Reserved.

Although Belden ("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. EU ELV (Directive 2000/53/EC, 18-Sept-2000); EU WEEE (Directive 2002/96/EC, 27-Jan-2003); And 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.