# **Detailed Specifications & Technical Data**

**METRIC MEASUREMENT VERSION** 



#### 9248 Coax - 75 Ohm Coax

For more Information please call

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 Strandin	Stranding	<b>Conductor Material</b>	Dia. (mm)	
1	18	Solid	BC - Bare Copper	1.016

**Total Number of Conductors:** 

#### Insulation

#### **Insulation Material:**

Insulation Material	Dia. (mm)
Gas-injected FHDPE - Foam High Density Polyethylene	4.572

#### **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: 6.858 mm

# **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-40°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 1354)
Bulk Cable Weight:	52.087 Kg/Km
Max. Recommended Pulling Tension:	195.721 N
Min. Bend Radius/Minor Axis:	69.850 mm

# **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		

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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:



Nom. Inductance:



Nom. Capacitance Conductor to Shield:

Capacitance (pF/m) 53.1522

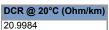
Nominal Velocity of Propagation:



Nominal Delay:



Nom. Conductor DC Resistance:



Nominal Outer Shield DC Resistance:



Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1	0.9843
5	1.77174
10	2.2967
50	4.9215
100	6.562
200	9.1868
400	13.124
700	17.3893
900	20.0141
1000	21.3265
1500	27.2323

Max. Operating Voltage - UL:

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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	С	#18 PE/GIFHDPE SH FRPVC
9248 0101640	1,640 FT	63.960 LB	BLACK	С	#18 PE/GIFHDPE SH CORE
9248 0103280	3,280 FT	121.360 LB	BLACK	С	#18 PE/GIFHDPE SH FRPVC
9248 010500	500 FT	19.000 LB	BLACK	С	#18 PE/GIFHDPE SH FRPVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 08-13-2012

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