# **Detailed Specifications & Technical Data**

**METRIC MEASUREMENT VERSION** 



#### 82248 Coax - 75 Ohm Coax

For more Information please call

1-800-Belden1



## **General Description:**

18 AWG solid .040" bare copper conductor, plenum, foam FEP insulation, Duofoil® + tinned copper braid shield (65% coverage), Flamarrest® jacket.

## **Physical Characteristics (Overall)**

#### Conductor

#### AWG:

# Coax	AWG	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)
FFEP - Foam Fluorinated Ethylene Propylene	4.318

#### **Outer Shield**

#### **Outer Shield Material:**

Layer # Outer Shield Trade Name		Туре	Outer Shield Material	Coverage (%)
1	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	TC - Tinned Copper	65

#### **Outer Jacket**

## **Outer Jacket Material:**

Outer Jacket Trade Name	Outer Jacket Material		
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride		

#### **Overall Cable**

Overall Nominal Diameter: 5.639 mm

# **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-20°C To +75°C		
UL Temperature Rating:	75°C		
Non-UL Temperature Rating:	75°C		
Bulk Cable Weight:	41.670 Kg/Km		
Max. Recommended Pulling Tension:	200.169 N		
Min. Bend Radius/Minor Axis:	57.150 mm		

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

## **Applicable Standards & Environmental Programs**

NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	No
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):	04/01/2005
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:	NFPA 262
Suitability	
Suitability - Indoor:	Yes
Plenum/Non-Plenum	
Plenum (Y/N):	Yes
Non-Plenum Number:	9248

## **Electrical Characteristics (Overall)**

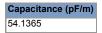
Nom. Characteristic Impedance:



Nom. Inductance:



Nom. Capacitance Conductor to Shield:



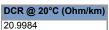
Nominal Velocity of Propagation:



**Nominal Delay:** 



Nom. Conductor DC Resistance:



**Nominal Outer Shield DC Resistance:** 



Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1	0.9843
10	2.2967
50	5.2496
100	7.2182
200	9.843
400	15.0926
700	21.6546
900	25.2637
1000	26.9042
1500	35.1067
1600	36.091
2000	42.3249

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Max. Operating Voltage - UL:

300 V RMS

Max. Operating Voltage - Non-UL:

Voltage 300 V RMS

Minimum Return Loss:

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

**Sweep Test** 

Sweep Testing: 100% sweep tested. 5 MHz to 450 MHz.

#### **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
82248 877U1000	305 MT	13.154 KG	NATURAL		#18 FFEP RG6/U FLMRST
82248 8771000	305 MT	14.061 KG	NATURAL	С	#18 FFEP RG6/U FLMRST

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 08-27-2012

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