Detailed Specifications & Technical Data

ENGLISH 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	Conductor Material	Dia. (in.)
1	18	Solid	BC - Bare Copper	.040

Total Number of Conductors:

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
FFEP - Foam Fluorinated Ethylene Propylene	.170

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	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: 0.222 in.

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:	28 lbs/1000 ft.
Max. Recommended Pulling Tension:	45 lbs.
Min. Bend Radius/Minor Axis:	2.250 in.

CMD

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC//III \ Specification:

CMP
CMP
Yes
No
Yes
Yes
04/01/2005
Yes
Yes
Yes
Yes
6/U

Page 1 of 3 01-09-2015

Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



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Flame Test				
UL Flame Test:	NFPA 262			
Suitability	Suitability			
Suitability - Indoor:	Yes			
Plenum/Non-Plenum				
Plenum (Y/N):	Yes			
Non-Plenum Number:	9248			

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
75

Nom. Inductance:

Inductance (µH/ft) .09

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
16.5

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) 5.1

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1	.3
10	.7
50	1.6
100	2.2
200	3.0
400	4.6
700	6.6
900	7.7
1000	8.2
1500	10.7
1600	11.0
2000	12.9

Max. Operating Voltage - UL:

Voltage 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	1,000 FT	29.000 LB	NATURAL		#18 FFEP RG6/U FLMRST
82248 8771000	1,000 FT	31.000 LB	NATURAL	С	#18 FFEP RG6/U FLMRST

Notes:

Page 2 of 3 01-09-2015

Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



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C = CRATE REEL PUT-UP.

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Page 3 of 3