

# Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

82907 Coax - 50 Ohm Ethernet Coax



For more Information  
please call

1-800-Belden1



## General Description:

Thinnet 10Base2, 20 AWG stranded (19x32) .037" tinned copper conductor, plenum Ethernet, FPFA insulation, Duobond® II + overall TC braid shield (93% coverage), Flamarrest® jacket.

## Usage (Overall)

Suitable Applications:	Thin Ethernet
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## Physical Characteristics (Overall)

### Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	20	19x32	TC - Tinned Copper	0.9398

Total Number of Conductors: 1

### Insulation

Insulation Material:

Insulation Material	Dia. (mm)
FPFA - Foam Perfluoroalkoxy	2.413

### Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Bonded Duofoil®	Tape	Bonded Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	TC - Tinned Copper	93

### Outer Jacket

Outer Jacket Material:

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

## Overall Cable

Overall Nominal Diameter:	4.064 mm
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## Mechanical Characteristics (Overall)

Operating Temperature Range: 0°C To +75°C

UL Temperature Rating: 75°C

Bulk Cable Weight: 32.740 Kg/Km

Max. Recommended Pulling Tension: 200.169 N

Min. Bend Radius/Minor Axis: 44.450 mm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CL2P, CMP
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CEC/C(UL) Specification:	CMP
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EU Directive 2011/65/EU (RoHS II):	Yes
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IEEE Specification:	IEEE802.3 10Base2
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EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2006
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:	58A/U

## Flame Test

UL Flame Test:	NFPA 262
CSA Flame Test:	FT6

## Plenum/Non-Plenum

Plenum (Y/N):	Yes
Non-Plenum Number:	9907

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)	Tolerance (Ohms)
50	+/- 2

### Nom. Inductance:

Inductance (µH/m)
0.208344

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)
83.3374

### Nominal Velocity of Propagation:

VP (%)
80

### Nominal Delay:

Delay (ns/m)
4.16687

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
28.8728

### Maximum Loop Resistance:

Resistance (Ohm/km)
50.0024

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
19.0298

### Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1	1.41083
10	4.2653
50	9.54771
100	13.7146
200	20.0141
400	30.1852
700	42.3249

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900	49.215
1000	52.496

## Max. Operating Voltage - UL:

Voltage
300 V RMS

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
82907 877U1000	305 MT	10.433 KG	NATURAL	O	#20 FPFA BRD FLMRST
82907 8771000	305 MT	10.433 KG	NATURAL	C Z	#20 FPFA BRD FLMRST
82907 8772500	762 MT	26.082 KG	NATURAL	C Z	#20 FPFA BRD FLMRST
82907 877500	152 MT	5.670 KG	NATURAL	C Z	#20 FPFA BRD FLMRST

### Notes:

C = CRATE REEL PUT-UP.

O = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR UNREEL CARTONS FROM LENGTH SHOWN.

Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND(+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

Revision Number: 2 Revision Date: 09-25-2012

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