## **Detailed Specifications & Technical Data**

#### **ENGLISH 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

## **Physical Characteristics (Overall)**

## Conductor

AWG:

# Coax AWG Stranding Conductor Material Dia. (in.)
1 | 20 | 19x32 | TC - Tinned Copper | .037

Total Number of Conductors:

#### Insulation

#### Insulation Material:

Insulation Material		Dia. (in.)
	FPFA - Foam Perflouoroalkoxy	.095

#### **Outer Shield**

#### Outer Shield Material:

Layer #	Layer # Outer Shield Trade Name Ty		Outer Shield Material	Coverage (%)
1	Bonded Duofoil®	Таре	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: 0.160 in.

#### **Mechanical Characteristics (Overall)**

Operating Temperature Range:	0°C To +75°C
UL Temperature Rating:	75°C
Bulk Cable Weight:	22 lbs/1000 ft.
Max. Recommended Pulling Tension:	45 lbs.
Min. Bend Radius/Minor Axis:	1.750 in.

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

## Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CL2P, CMP
CEC/C(UL) Specification:	CMP
EU Directive 2011/65/EU (ROHS II):	Yes
IEEE Specification:	IEEE802.3 10Base2
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

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	CA Prop 65 (CJ for Wire & Cable):	Yes
	MII Order #39 (China RoHS):	Yes
	RG Type:	58A/U
Flar	ne Test	
	UL Flame Test:	NFPA 262
	CSA Flame Test:	FT6
Plei	num/Non-Plenum	
	Plenum (Y/N):	Yes
	Non-Plenum Number:	9907

#### **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:

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

Nom. Inductance:



Nom. Capacitance Conductor to Shield:



Nominal Velocity of Propagation:



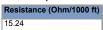
Nominal Delay:



Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft	)
8.8	٦

Maximum Loop Resistance:



Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft	t)
5.8	

Nom. Attenuation:

mi. Attoriuution.				
Freq. (MHz)	Attenuation (dB/100 ft.)			
1	.43			
10	1.3			
50	2.91			
100	4.18			
200	6.1			
400	9.2			
700	12.9			
900	15.0			
1000	16.0			

Max. Operating Voltage - UL:

Voltage 300 V RMS

## **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
82907 877U1000	1,000 FT	23.000 LB	NATURAL	0	#20 FPFA BRD FLMRST
82907 8771000	1,000 FT	23.000 LB	NATURAL	CZ	#20 FPFA BRD FLMRST
82907 8772500	2,500 FT	57.500 LB	NATURAL	CZ	#20 FPFA BRD FLMRST
82907 877500	500 FT	12.500 LB	NATURAL	CZ	#20 FPFA BRD FLMRST

#### Notes:

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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.

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

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