

**Part Number: 9907**

Thinnet 10BASE2, #20, FPO, Duobond II+TC Braid, PVC Jkt, CM



## Product Description

IEEE 802.3 Ethernet Thinnet 10BASE2, 20 AWG stranded (19x32) .037" tinned copper conductor, foam polyethylene insulation, Duobond® II (100% coverage) + an overall tinned copper braid shield (93% coverage), PVC jacket.

## Technical Specifications

### Product Overview

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

#### Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
20	19x32	TC - Tinned Copper	0.037 in	1

Conductor Count:	1
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#### Insulation

Material	Nominal Diameter
FHDPE - Foamed High Density Polyethylene	0.102 in

#### Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Bonded Aluminum Foil-Polyester Tape-Aluminum Foil	Bonded Duofoil®	100 %
Braid	2	TC - Tinned Copper		93 %

#### Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.185 in
	0.279 in

### Electrical Characteristics

#### Conductor DCR

Max. Conductor Loop	Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
15.24 Ohm/1000ft	8.8 Ohm/1000ft	5.8 Ohm/1000ft	5.8 Ohm/1000ft

#### Capacitance

Nom. Capacitance Conductor to Shield
25.4 pF/ft

#### Inductance

Nominal Inductance
0.27 µH/m

#### Impedance

Nominal Characteristic Impedance	Nominal Characteristic Tolerance
50 Ohm	± 2 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.43 dB/100ft
10 MHz	1.3 dB/100ft
50 MHz	2.91 dB/100ft
100 MHz	4.2 dB/100ft
200 MHz	6.1 dB/100ft
400 MHz	8.9 dB/100ft
700 MHz	12.1 dB/100ft
900 MHz	13.9 dB/100ft
1000 MHz	14.8 dB/100ft

Delay

Max. Delay Skew	Nominal Delay	Nominal Velocity of Propagation (VP) [%]
80 ns/100m	1.27 ns/ft	80 %

Voltage

UL Description	UL Voltage Rating
	300 V RMS
UL AWM Style 1354	30 V RMS

Temperature Range

UL Temp Rating:	60°C
Operating Temp Range:	-40°C To +80°C

Mechanical Characteristics

Bulk Cable Weight:	23 lbs/1000ft
Max Recommended Pulling Tension:	45 lbs
Min Bend Radius/Minor Axis:	2 in

Standards

Customer Part Number Reference Spec:	DEC Part No. 17-01248-00
NEC/(UL) Specification:	CL2, CM
CEC/C(UL) Specification:	CM
UL AWM Style:	1354 (30 V 60°C)
ISO/IEC Compliance:	8802.3 10Base2
CPR Euroclass:	Eca
IEEE Specification:	802.3 10Base2
RG Type:	RG-58A/U Type
Other Standards:	ISO8802.3 10Base2

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes
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Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 UL Loading
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Part Number

Plenum (Y/N):	No
Plenum Number:	82907, 89907

Variants

Item #	Color
9907.001000	Gray
9907.00152	Gray
9907.00305	Gray
9907.00500	Gray
9907.00U305	Gray
9907 E4X1000	Gray
9907 E4X1640	Gray
9907 E4X2500	Gray
9907 E4X3280	Gray
9907 E4X500	Gray
9907 E4X5000	Gray
9907 E4XU1000	Gray

Product Notes

Notes:	Tape to bond at overlap area only. Tape is not designed to bond to dielectric core.
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