

**Product:** [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
PE - Polyethylene (Foam)	0.102 in

#### Outer Shield

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
Braid	2	Tinned Copper (TC)		93%

#### Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.185 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

Electrical Characteristics Notes:	UL AWM 1354: 30 V RMS
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## Temperature Range

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

## Mechanical Characteristics

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

## Standards

Customer Reference Document:	DEC Part No. 17-01248-00
NEC/(UL) Compliance:	CL2, CM
CEC/C(UL) Compliance:	CM
UL AWM Style Compliance:	AWM 1354 (30 V 60°C)
CPR Euroclass:	Eca
IEEE Compliance:	802.3 10Base2
RG Type:	58
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 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
MII Order #39 (China RoHS):	Yes

## Suitability

Suitability - Indoor:	Yes
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## Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 UL Loading
IEC Flammability:	IEC 60332-1-2
UL voltage rating:	300 V RMS

## Plenum/Non-Plenum

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

## Related Part Numbers

### Variants

Item #	Color	Put-Up Type	Length	UPC/EAN
9907.00152	Gray	Reel	152 m	8719605023483
9907.00305	Gray	Reel	305 m	8719605023490
9907.00U305	Gray	Reel	305 m	8719605023513
9907 E4X500	Gray	Reel	500 ft	612825260561
9907.00500	Gray	Reel	500 m	8719605023506
9907 E4X1000	Gray	Reel	1,000 ft	612825260523
9907 E4XU1000	Gray	UnReel	1,000 ft	612825260516
9907.001000	Gray	Reel	1,000 m	8719605023476
9907 E4X1640	Gray	Reel	1,640 ft	612825260530
9907 E4X2500	Gray	Reel	2,500 ft	612825260547
9907 E4X3280	Gray	Reel	3,280 ft	612825260554
9907 E4X5000	Gray	Reel	5,000 ft	612825260578

Footnote:	C - CRATE REEL PUT-UP.
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## Product Notes

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

Update and Revision:	Revision Number: 0.376 Revision Date: 05-05-2023
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