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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

Physical Characteristics (Overall)

Conductor

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

Conductor Count:	1
Conductor Size:	20 AWG

Insulation

Material	Nominal Diameter
FHDPE - Foamed High Density Polyethylene	0.102 in

Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum/Polyester/Aluminum	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

Electrical Characteristics Notes:	UL AWM 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:	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

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 UL Loading
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

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

Part Number

Variants

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

Footnote:	C - CRATE REEL PUT-UP.

Product Notes

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

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