



Product: [89880](#)

Thicknet 10BASE5, #12 BC, FFEP, Duobond IV, PVDF Jkt, CMP

Product Description

IEEE 802.3 Ethernet Thicknet 10BASE5, DEC p/n 17-00324-00, 12 AWG solid .086" bare copper conductor, foam FEP insulation, Duobond IV® quad shield (100% coverage), fluorocopolymer jacket, plenum rated.

Technical Specifications

Product Overview

Suitable Applications:	Thick Ethernet
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
12	Solid	BC - Bare Copper	0.086 in	1

Conductor Count:	1
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Insulation

Material	Nominal Diameter
FEP - Fluorinated Ethylene Propylene (Foam)	0.245 in

Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Alum / Poly / Alum	Bonded Duofoil®	100%
Braid	2	Tinned Copper (TC)		90%
Tape	3	Alum / Poly / Alum	Duofoil®	100%
Braid	4	Tinned Copper (TC)		90%

Outer Jacket Material

Material	Nominal Diameter
PVDF - Polyvinylidene Fluoride	0.375 in

Weight:	0.386 lbs
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Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
1.42 Ohm/1000ft	1.52 Ohm/1000ft	1.52 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield
26 pF/ft

Inductance

Nominal Inductance
0.0645 µH/ft

Impedance

Nominal Characteristic Impedance	Nominal Characteristic Tolerance
50 Ohm	± 2 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.18 dB/100ft
5 MHz	0.37 dB/100ft
10 MHz	0.52 dB/100ft
50 MHz	1.15 dB/100ft
100 MHz	1.65 dB/100ft
200 MHz	2.45 dB/100ft
400 MHz	3.8 dB/100ft
700 MHz	5.6 dB/100ft
900 MHz	6.8 dB/100ft
1000 MHz	7.2 dB/100ft

Delay

Max. Delay Skew	Nominal Delay	Nominal Velocity of Propagation (VP) [%]
78 ns/100m	1.3 ns/ft	78%

Unbalanced Crosstalk

Typical Unbalanced FEXT %
0.4 MHz
0.4 MHz

Power Rating

Frequency [MHz]	Max. Power Rating [W]
1 MHz	15,900 W
5 MHz	6,928 W
10 MHz	4,802 W
50 MHz	1,992 W
100 MHz	1,344 W
200 MHz	900 W
400 MHz	602 W
700 MHz	438 W
900 MHz	382 W
1,000 MHz	361 W

Voltage

UL Voltage Rating
300 V RMS

Temperature Range

UL Temp Rating:	150°C
Operating Temp Range:	-25°C To +150°C

Mechanical Characteristics

Bulk Cable Weight:	125 lbs/1000ft
Max. Pull Tension:	255 lbs
Min Bend Radius/Minor Axis:	3.75 in

Standards

Customer Reference Document:	DEC Part No. 17-00324-00
NEC/(UL) Compliance:	CL2P, CMP
CEC/C(UL) Compliance:	CMP
IEEE Compliance:	802.3 10Base5

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):	2005-04-01
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Burial:	Yes
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

Flammability, LSOH, Toxicity Testing

UL Flammability:	NFPA 262 Plenum Flame Test (UL910)
CSA Flammability:	FT6
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	Yes
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Part Number

Non-Plenum Number:	9880
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Variants

Item #	Color	Putup Type	Length	UPC
89880 0031000	Orange	Reel	1,000 ft	612825221364
89880 0031640	Orange	Reel	1,640 ft	612825221371

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

Product Notes

Notes:	Ring-band stripes every 2.5 meters to aid users in tap placement.
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History

Update and Revision:	Revision Number: 0.253 Revision Date: 06-24-2020
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