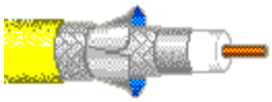
Part Number: 9880



Thicknet 10BASE5, #12 BC, FPO, Duobond IV, PVC Jkt, CM

Product Description

IEEE 802.3 Ethernet Thicknet 10BASE5, DEC p/n 17-00451-00, 12 AWG solid .086" bare copper conductor, foam polyethylene insulation, Duobond IV® quad shield (100% coverage), PVC jacket.

Technical Specifications

Product Overview

Suitable Applications:	Thick Ethernet

Physical Characteristics (Overall)

Conductor

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

Conductor Count:	1
AWG Size:	12

Insulation

Material	Nominal Diameter
FPE - Foamed Polyethylene	0.243 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		94 %
Tape	3	Aluminum Foil-Polyester Tape-Aluminum Foil	Duofoil®	100 %
Braid	4	TC - Tinned Copper		90 %

Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.405 in
	0.25 in

Weight:	0.25 lbs

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
0.065 µH/ft

Impedance

Nominal Characteristic Impedance	Nominal Characteristic Tolerance
50 Ohm	± 2 Ohm

Delay

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

High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)
1 MHz	0.19 dB/100ft
5 MHz	0.37 dB/100ft
10 MHz	0.52 dB/100ft
50 MHz	1.2 dB/100ft
100 MHz	1.7 dB/100ft
200 MHz	2.55 dB/100ft
400 MHz	3.9 dB/100ft
700 MHz	5.5 dB/100ft
900 MHz	6.5 dB/100ft
1000 MHz	6.9 dB/100ft
1500 MHz	8.5 dB/100ft
2000 MHz	10.1 dB/100ft
2500 MHz	11.5 dB/100ft
3000 MHz	13 dB/100ft

Voltage

UL Description	UL Voltage Rating
	300 V RMS
UL AWM 1478	30 V RMS

Electrical Characteristics Notes:	UL AWM 1478: 30 V RMS

Temperature Range

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

Mechanical Characteristics

Bulk Cable Weight:	122 lbs/1000ft
Max Recommended Pulling Tension:	255 lbs
Min Bend Radius/Minor Axis:	4.25 in

Standards

Customer Part Number Reference Spec:	DEC Part No. 17-00451-00
NEC/(UL) Specification:	CL2, CM
CEC/C(UL) Specification:	CM
UL AWM Style:	1478 (30 V 60°C)
CPR Euroclass:	Eca
IEEE Specification:	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):	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

Part Number

Plenum (Y/N):	No
Plenum Number:	89880

Variants

Item #	Color	Footnote
9880 0041000	YELLOW	C
9880 0041640	YELLOW	C
9880 004500	YELLOW	C

Footnote:	C - CRATE REEL PUT-UP.

Product Notes

Notes:	Ringband stripes every 2.5 meters to aid users in tap placement.