



## Product: [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
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#### Construction Details

##### Conductor

Element	No. of Elements	Size	Stranding	Nom. Diameter	Material
Coax(es)	1	12 AWG	Solid	0.086 in	BC - Bare Copper

##### Insulation

Element	Material	Nom. Insulation Diameter	Color Code
Coax(es)	PE - Polyethylene (Foam)	0.243 in (6.17 mm)	White

##### Inner Shield

Element	Shield Type	Material	Coverage
Coax(es)	Tape	Tri-Laminate (Alum+Poly+Alum)	100%
Coax(es)	Braid	Tinned Copper (TC)	95%

##### Outer Shield

Layer	Outer Shield Type	Material	Material Trade Name	Coverage
1	Tape	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
2	Braid	Tinned Copper (TC)		94%
3	Tape	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
4	Braid	Tinned Copper (TC)		90%

##### Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.405 in (10.3 mm)

#### Electrical Characteristics

##### Attenuation

Frequency	Max. 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
7000 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

#### Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
1.42 Ohm/1000ft (4.66 Ohm/km)	1.52 Ohm/1000ft (4.99 Ohm/km)	26 pF/ft (85 pF/m)	50 Ohm	78%

#### Voltage

UL Voltage Rating
300 V RMS, 30 V RMS

Electrical Characteristics Notes: UL AWM 1478: 30 V RMS

#### Mechanical Characteristics

##### Temperature

UL Temperature	Operating
60°C	-40°C To +60°C

##### Bend Radius

Stationary Min.	Installation Min.
4.05 in (103 mm)	4.05 in (103 mm)

Max. Pull Tension: 255 lbs (116 kg)

Bulk Cable Weight: 122 lbs/1000ft (182 kg/km)

#### Standards and Compliance

Environmental Suitability:	Indoor, Indoor
Flammability / Reaction to Fire:	UL1685 UL Loading, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca; CPR UKCA Class: Eca
NEC / UL Compliance:	Article 725, Article 800, CL2, CM
AWM Compliance:	AWM 1478
CEC / C(UL) Compliance:	CM
IEEE Compliance:	IEEE 802.3 10Base5
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Other Standard Compliance(s):	DEC Part No. 17-00451-00
Plenum Number:	89880

#### History

Update and Revision: Revision Number: 0.607 Revision Date: 12-18-2025

#### Part Numbers

##### Variants

Item #	Color	Putup Type	Length	UPC	Footnote
9880 004500	Yellow	Reel	500 ft	612825259961	C
9880 0041000	Yellow	Reel	1,000 ft	612825259947	C
9880 0041640	Yellow	Reel	1,640 ft	612825259954	C

Footnote: C - CRATE REEL PUT-UP.

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