



**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
------------------------	----------------

#### 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.	Max. Delay Skew
1.42 Ohm/1000ft	1.52 Ohm/1000ft (4.99 Ohm/km)	26 pF/ft (85 pF/m)	50 Ohm	78%	78 ns/100m

#### 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

### 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

### Product Notes

Notes: Ringband stripes every 2.5 meters to aid users in tap placement. (1) # Elements@Conductor1:-In Stibo it was Blank and now changed to 1. (2) Size@Conductor1 :-In Stibo it was 12 now changed to 12AWG (3) Color@Color Chart1 01 :- In stibo it was Blank now Changed to White (4) Material@OuterShield1 1 - In stibo it is Tri-Laminate (Alum+Poly+Alum) But in BPCS (EAA+ Alum+ Poly+Alum) (5) Material@OuterShield1 3 - In stibo it is Tri-Laminate (Alum+Poly+Alum) But in BPCS (Diamond Pattern EAA+ Alum+ Poly+Alum + Mineral oil) (6) Cable Diameter (Nominal)- In Stibo it was Blank Now Changed to 0.405 in.

### History

Update and Revision: Revision Number: 0.476 Revision Date: 04-29-2024

### 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

© 2024 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.