



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
------------------------	----------------

Physical Characteristics (Overall)

Conductor

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

Conductor Count:	1
------------------	---

Insulation

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.243 in

Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Alum / Poly / Alum	Duofoil®	100%
Braid	2	Tinned Copper (TC)		94%
Tape	3	Alum / Poly / Alum	Duofoil®	100%
Braid	4	Tinned Copper (TC)		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. Pull Tension:	255 lbs
Min Bend Radius/Minor Axis:	4.25 in

Standards

Customer Reference Document:	DEC Part No. 17-00451-00
NEC/(UL) Compliance:	CL2, CM
CEC/C(UL) Compliance:	CM
UL AWM Style Compliance:	1478 (30 V 60°C)
CPR Euroclass:	Eca
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):	2004-01-01
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes
-----------------------	-----

Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 UL Loading
IEC Flammability:	IEC 60332-1-2
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

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

Part Number

Variants

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

Footnote:	C - CRATE REEL PUT-UP.
-----------	------------------------

Product Notes

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

History

Update and Revision:	Revision Number: 0.257 Revision Date: 06-24-2020
----------------------	--

© 2020 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.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Coaxial Cables](#) category:

Click to view products by [Belden](#) manufacturer:

Other Similar products are found below :

[89880-003-1000](#) [633948-877-1000](#) [CY2389-000](#) [8213-010-1000](#) [8221-010-U1000](#) [8233-010-1000](#) [88281-010-500](#) [1322R-010-1000](#) [177799-000](#) [1807A-B59-U1000](#) [9167-010-1000](#) [9251-010-1000](#) [9275-010-U1000](#) [935240-000](#) [9659-010-1000](#) [980704-001](#) [CF2823-000](#) [33312-010-500](#) [CZ1589-000](#) [5022W0809-0CS3263](#) [10610-4-4](#) [EF8108-000](#) [1673B TIN100](#) [672525-001](#) [144517-000](#) [8-1616396-1](#) [8263-010-U1000](#) [8263 010U500](#) [8268-010-500](#) [8262 010U1000](#) [7915A 009U1000](#) [5024A1311-0](#) [TRC-75-1](#) [1281S5 010250](#) [1281S5 000250](#) [1530A 010U1000](#) [1505A 0081000](#) [9248 010U1000](#) [CO-142BNCX200-001](#) [7809WB 010500](#) [9244 0101000](#) [1694A 0081000](#) [9204 0101000](#) [8241F J5C1000](#) [1530A 0101000](#) [1674A TIN50](#) [7915A 0091000](#) [7915A 010500](#) [TWCH-78-2](#) [TWC-78-1](#)