



**Product:** [89880](#)

50Ω, #12 Sol BC, FFEP Ins, Duobond IV® quad shield, PVDF Jkt, CMP

Product Description

Ethernet 50 Ω 10BASE5, 12 AWG solid bare copper conductor, foam FEP insulation, Overall Duobond® II+Tinned Copper Braid (90%)+Duofoil®+Tinned Copper Braid(90%) Shield, fluorocopolymer jacket, CMP

Technical Specifications

Product Overview

Suitable Applications:	Thick Ethernet (IEEE 802.3 10BASE5)
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Construction Details

Conductor

Size	Stranding	Nom. Diameter	Material
12 AWG	Solid	0.086 in	BC - Bare Copper

Insulation

Material	Nom. Insulation Diameter	Color Code
FEP - Fluorinated Ethylene Propylene (Foam)	0.245 in (6.22 mm)	Clear

Outer Shield

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

Outer Jacket

Material	Nom. Diameter
PVDF - Polyvinylidene Fluoride	0.365 in (9.27 mm)

Overall Cable Diameter (Nominal):	0.365 in (9.27 mm)
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Electrical Characteristics

Attenuation

Frequency	Nom. Attenuation
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	3.80 dB/100ft
700 MHz	5.60 dB/100ft
900 MHz	6.80 dB/100ft
1000 MHz	7.20 dB/100ft

Power Rating

Frequency	Max. Power Rating
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

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
1.4 Ohm/1000ft	1.5 Ohm/1000ft (4.9 Ohm/km)	26.0 pF/ft (85.3 pF/m)	50 Ohm	78%

Voltage

UL Voltage Rating	Voltage Rating
300 V (CMP)	600 V

Mechanical Characteristics

Temperature

UL Temperature	Operating
150°C	-25°C to +150°C

Bend Radius

Installation Min.
6.0 in (150 mm)

Max. Pull Tension:	255 lbs (116 kg)
Bulk Cable Weight:	137 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor - Plenum, Indoor
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	NFPA 262
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	CL2P, CMP
CEC / C(UL) Compliance:	CMP
IEEE Compliance:	IEEE 802.3 10Base5
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, 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. 17-00324-00
Non-Plenum Number:	9880

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: 0.497 Revision Date: 11-27-2023
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Part Numbers

Variants

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

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