



Product: [89892](#)

Transceiver 10BASE5, #20-4pr, FEP, PVC Jkt, CMP

Product Description

IEEE 802.3 Ethernet Transceiver 10BASE5, 20 AWG stranded (7x28) tinned copper conductors, FEP insulation, twisted pairs, individual Beldfoil® shields (100% coverage), overall polyester isolation tape and Duofoil® shield + a tinned copper braid shield (95% coverage), fluorocopolymer jacket, plenum rated.

Technical Specifications

Product Overview

Suitable Applications:	10Base5 Transceiver
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
20	7x28	TC - Tinned Copper	4

Conductor Count:	8
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Insulation

Material	Material Trade Name	Nominal Wall Thickness
FEP - Fluorinated Ethylene Propylene	Teflon®	0.011 in

Color Chart

Number	Color
1	Gray & White
2	Yellow & Orange
3	Blue & Green
4	Red & Black

Inner Shield

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Bi-Laminate (Alum+Poly)	Beldfoil® (Z-Fold®)	100%	TC - Tinned Copper	22	7x30

Outer Shield

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
Braid	2	Tinned Copper (TC)		95%

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness	Separator Material
PVDF - Polyvinylidene Fluoride	0.359 in	0.014 in	Polyester Tape

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
9.5 Ohm/1000ft	1.5 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
16.7 pF/ft	29.5 pF/ft

Inductance

Nominal Inductance
0.2 μ H/ft

Impedance

Nominal Characteristic Impedance	Nominal Characteristic Tolerance
78 Ohm	\pm 5 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
10 MHz	6 dB/100m

Delay

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

High Frequency

Max. Insertion Loss (Attenuation)
6 dB/100m

Current

Max. Recommended Current [A]
2.8 Amps per Conductor at 25°C

Voltage

UL Voltage Rating
300 V RMS

Temperature Range

UL Temp Rating:	150°C
Operating Temperature Range:	-40°C To +150°C

Mechanical Characteristics

Bulk Cable Weight:	90 lbs/1000ft
Max. Pull Tension:	175 lbs
Min. Bend Radius/Minor Axis:	3.75 in

Standards

Customer Reference Document:	DEC Part No. 17-00321-02
NEC/(UL) Compliance:	CMP
CEC/C(UL) Compliance:	CMP
IEEE Compliance:	IEEE 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 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
MII Order #39 (China RoHS):	Yes

Flammability, LS0H, Toxicity Testing

UL Flammability:	NFPA 262 Plenum Flame Test (UL910)
CSA Flammability:	FT6
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N): Yes

Related Part Numbers

Non-Plenum Number: 9901

Variants

Item #	Color	UPC
89892 0011000	Brown	612825221388
89892 001500	Brown	612825221395

Footnote: C - CRATE REEL PUT-UP.

Product Notes

Notes: Teflon« is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

History

Update and Revision: Revision Number: 0.356 Revision Date: 02-03-2025

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