



**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 Material

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 Material

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

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 $\mu$ 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
78 ns/100m	1.3 ns/ft

#### High Freq

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 Temp 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:	1700321-02
NEC/(UL) Compliance:	CMP
CEC/C(UL) Compliance:	CMP
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 Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-04-01
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
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## Part Number

Non-Plenum Number:	9901
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## Variants

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

Footnote:	C - CRATE REEL PUT-UP.
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## Product Notes

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

Update and Revision:	Revision Number: 0.271 Revision Date: 09-30-2020
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