

**Part Number: 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
Conductor Size:	20 AWG

#### 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	Aluminum Foil-Polyester Tape	Beldfoil® (Z-Fold®)	100 %	TC - Tinned Copper	22	7x30 mm

#### Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum Foil-Polyester Tape-Aluminum Foil	Duofoil®	100 %
Braid	2	TC - Tinned Copper		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
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Shielding:	Individually Foiled + Overall Braid
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#### Inductance

<b>Nominal Inductance</b>
0.2 µH/ft

#### Impedance

<b>Nominal Characteristic Impedance</b>	<b>Nominal Characteristic Tolerance</b>
78 Ohm	± 5 Ohm

#### High Frequency (Nominal/Typical)

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

#### Delay

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

#### High Freq

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

#### Current

<b>Max. Recommended Current [A]</b>
Per conductor @ 25°C: 2.8 A

#### Voltage

<b>UL Voltage Rating</b>
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 Recommended Pulling Tension:	175 lbs
Min Bend Radius/Minor Axis:	3.75 in

#### Standards

Customer Part Number Reference Spec:	1700321-02
NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
IEEE Specification:	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
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

#### Flammability, LS0H, Toxicity Testing

UL Flammability:	NFPA 262 Plenum Flame Test (UL910)
CSA Flammability:	FT6

## Plenum/Non-Plenum

Plenum (Y/N):	Yes
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## Part Number

Non-Plenum Number:	9901
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## Variants

Item #	Color	Footnote
89892 0011000	Brown	C
89892 001500	Brown	C

Footnote:	C - CRATE REEL PUT-UP.
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