




**Product:** [89901](#) 

Transceiver 10BASE5, #20-4pr, FEP, Individ. Foil Shielded pairs with Isolated Overall Duofoil + Brd, CMP

## Product Description

IEEE 802.3 Ethernet Transceiver 10BASE5, 20 AWG stranded (7x28) tinned copper conductors, plenum, FEP insulation, twisted pairs, Individually foil shielded pairs, overall polyester isolation tape + Duofoil® + tinned copper braid shield (95% coverage), drain wire, light gray fluorocopolymer (PVDF) jacket, plenum rated

## Technical Specifications

### Product Overview

Suitable Applications:	10Base5 Transceiver
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### Construction Details

#### Conductor

Element	Number of Element	Size	Stranding	Material
Data Pair(s)	3	20 AWG	7x28	TC - Tinned Copper
Power Pair(s)		20 AWG	7x28	TC - Tinned Copper

#### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Data Pair(s)	FEP - Fluorinated Ethylene Propylene (Foam)	0.019 in (0.48 mm)	0.076 in (1.9 mm)	Gray & White, Yellow & Orange, Blue & Green
Power Pair(s)	FEP - Fluorinated Ethylene Propylene	0.011 in (0.28 mm)	0.060 in (1.5 mm)	Black & Red

#### Inner Shield

Element	Shield Type	Material	Coverage	Notes
Data Pair(s)	Tape	Bi-Laminate (Alum+Poly)	100%	Foil Out
Power Pair(s)	Tape	Bi-Laminate (Alum+Poly)	100%	Foil Out

#### Outer Shield

Shield Type	Material	Coverage	Drainwire Type	Notes
Tape	Tri-Laminate (Alum+Poly+Alum)	100%	22 AWG (7x30) TC	Polyester Isolating tape under DuoFoil
Braid	Tinned Copper (TC)	95%		

#### Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVDF - Polyvinylidene Fluoride	0.016 in (0.41 mm)	0.370 in (9.40 mm)

Overall Cable Diameter (Nominal):	0.370 in (9.40 mm)
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### Electrical Characteristics

#### Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedance	Nom. Velocity of Prop.	Max. Current
Data Pair(s)	10.5 Ohm/1000ft (34.4 Ohm/km)	16.7 pF/ft (54.8 pF/m)	29.5 pF/ft (96.8 pF/m)	78 Ohm	78%	2.8 Amps per Conductor at 25°C
Pair(s)						

#### Voltage

<b>UL Voltage Rating</b>
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300 V (CMG)

## Mechanical Characteristics

### Temperature

UL Temperature	Operating
150°C	-20°C to +150°C

### Bend Radius

Stationary Min.	Installation Min.
3.7 in (94 mm)	3.7 in (94 mm)

Max. Pull Tension:	201 lbs (91.2 kg)
Bulk Cable Weight:	93 lbs/1000ft (140 kg/km)

## Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Burial
Flammability / Reaction to Fire:	NFPA 262 Plenum Flame Test (UL910), FT6, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 800, CMP
CEC / C(UL) Compliance:	CMP
IEEE Compliance:	802.3 10Base5
European Directive Compliance:	EU CE Mark, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Other Standard Compliance(s):	DEC Part No. 17-01319-00
Non-Plenum Number:	9901

## History

Update and Revision:	Revision Number: 0.335 Revision Date: 06-23-2022
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## Part Numbers

### Variants

Item #	Color	UPC
89901 E4X1000	Gray, Light Dec	612825221401
89901 E4X500	Gray, Light Dec	612825221418

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