



**Product:** [9891](#)

Transceiver 10BASE5, #22-3pr, #20-1pr, FHDPE, Individ. Foil shielded pairs w/ OA Brd, PVC Jkt, CM

**Product Description**

IEEE 802.3 Ethernet Transceiver 10BASE5, 20 and 22 AWG stranded tinned copper conductors, foam high-density polyethylene (22 AWG) and PVC (20 AWG) insulation, twisted pairs, Individually foil shielded pairs with overall tinned copper braid shield (95% coverage) drain wire, PVC jacket.

**Technical Specifications**

**Product Overview**

Suitable Applications:	IEEE 802.3 Transceiver Cable
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**Construction Details**

**Conductor**

Element	Number of Element	AWG	Stranding	Material
Data Pair(s)	3	22	7x30	TC - Tinned Copper
Pair(s)	1	20	7x28	TC - Tinned Copper

**Insulation**

Element	Material	Thickness	Color Code	Notes
Data Pair(s)	PE - Polyethylene (Foam)	0.017 in	Yellow & Orange, Blue & Green, Black & White	HDPE
Pair(s)	PVC - Polyvinyl Chloride	0.012 in	Gray & Purple	

**Inner Shield Material**

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

**Outer Shield Material**

Shield Type	Material	Coverage
Braid	Tinned Copper (TC)	95%

**Outer Jacket Material**

Material	Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.032 in	0.316 in

Cable Diameter (Nominal):	0.316 in
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**Electrical Characteristics**

**Electricals**

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Characteristic Impedance	Nom. Velocity of Prop.	Max. Current
Pair(s)	14.7 Ohm/1000ft	16.7 pF/ft	29.5 pF/ft	78 Ohm	78%	2 Amps per Conductor at 25°C
Pair(s)	9.5 Ohm/1000ft					2.5 Amps per Conductor at 25°C

Nom Outer Shield DCR:	1.8 Ohm/1000ft
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**Voltage**

<b>UL Voltage Rating</b>
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300 V (CM), 30 V (UL AWM 2919)

## Mechanical Characteristics

### Temperature

UL Rating	Operating
80°C (UL AWM 2919)	-20°C to +80°C

### Bend Radius

Stationary Min.	Installation Min.
3.25 in	3.2 in

Max. Pull Tension:	160 lbs
Bulk Cable Weight:	65 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor
Flammability / Fire Resistance:	UL1685 UL Loading, FT1, IEC 60332-1-2
NEC / UL Compliance:	Article 800, CM
AWM Compliance:	2919
CEC / C(UL) Compliance:	CM
IEEE Compliance:	802.3 10Base5
CPR Euroclass:	Eca
European Directive Compliance:	EU CE Mark, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

## History

Update and Revision:	Revision Number: 0.384 Revision Date: 09-30-2020
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