



**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	No. of Elements	Size	Stranding	Material
Data Pair(s)	3	22 AWG	7x30	TC - Tinned Copper
Pair(s)	1	20 AWG	7x28	TC - Tinned Copper

##### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code	Notes
Data Pair(s)	PE - Polyethylene (Foam)	0.017 in (0.43 mm)	0.063 in (1.6 mm)	Yellow & Orange, Blue & Green, Black & White	HDPE
Pair(s)	PVC - Polyvinyl Chloride	0.012 in (0.30 mm)	0.062 in (1.6 mm)	Gray & Purple	

##### Inner Shield

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

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

##### Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.032 in (0.81 mm)	0.316 in (8.03 mm)

Overall Cable Diameter (Nominal):	0.316 in (8.03 mm)
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#### Electrical Characteristics

##### Electricals

Element	Nom. Conductor DCR	Nom. Inner Shield DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedance	Nom. Velocity of Prop.	Max. Current
Pair(s)	18.2 Ohm/1000ft	12.4 Ohm/1000ft (40.7 Ohm/km)	16.7 pF/ft (54.8 pF/m)	29.5 pF/ft (96.8 pF/m)	78 Ohm	78%	2 Amps per Conductor at 25°C
Pair(s)	11.3 Ohm/1000ft (37.1 Ohm/km)	12.4 Ohm/1000ft (40.7 Ohm/km)					2.5 Amps per Conductor at 25°C

##### Voltage

UL Voltage Rating
300 V (CM), 30 V (AWM 2919)

## Mechanical Characteristics

### Temperature

UL Temperature	Operating
80°C	-20°C to +80°C

### Bend Radius

Stationary Min.	Installation Min.
3.2 in (81 mm)	3.2 in (81 mm)

Max. Pull Tension:	160 lbs (73 kg)
Bulk Cable Weight:	65 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor
Flammability / Reaction to Fire:	UL 1685 FT4 Loading, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 800, CM
AWM Compliance:	AWM 2919
CEC / C(UL) Compliance:	CM
IEEE Compliance:	IEEE 802.3 10Base5
European Directive Compliance:	EU CE Mark, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)

## History

Update and Revision:	Revision Number: 0.574 Revision Date: 12-22-2023
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## Part Numbers

### Variants

Item #	Color	UPC	Footnote
9891 006100	Blue	612825260066	
9891 0061000	Blue	612825260073	C
9891 006500	Blue	612825260080	C
9891 0065000	Blue	612825260097	C Z

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