Belden



Product: 9891

Transceiver 10BASE5, #22-3pr, #20-1pr, FHDPE, Indiv. 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

Construction Details

Conductor

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

Insulation

Element	Material	Nom. Insulation Diameter	Color Code	Notes
Data Pair(s)	PE - Polyethylene (Foam)	0.063 in (1.6 mm)	Yellow & Orange, Blue & Green, Black & White	HDPE
Pair(s)	PVC - Polyvinyl Chloride	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. Diameter
PVC - Polyvinyl Chloride	0.316 in (8.03 mm)

Overall Cable Diameter (Nominal):	0.316 in (8.03 mm)

Electrical Characteristics

Electricals

Element	Nom. Characteristic Impedance
Pair(s)	78 Ohm
Pair(s)	

Delay

Max. Delay Skew	Nom. Velocity of Prop.
78 ns/100m	78%

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: 0.576 Revision Date: 09-07-2025

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

Footnote:	C - CRATE REEL PUT-UP., Z - FINAL PUT-UP MAY VARY (= OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

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