Product: 9898

Transceiver 10BASE5, #28-3pr, #24-3c, PO, Isolated Shields, PVC Jkt, CM

Product Description

IEEE 802.3 Ethernet Transceiver 10BASE5, 3 pairs - 28 AWG stranded (7x36) tinned copper conductors, 3 conductors - 24 AWG stranded (7x32) tinned copper conductors, polypropylene insulation, all indiv. Beldfoil® shielded, overall isolated, Duofoil® + tinned copper braid shield, PVC jacket.

Technical Specifications

Product Overview

Suitable Applications:	IEEE 802.3 Transceiver Cable

Construction Details

Conductor

Element	Number of Element	Size	Stranding	Material
Pair(s)	3	28 AWG	7x36	TC - Tinned Copper
Conductor(s)	3	24 AWG	7x32	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Triad(s)	PP - Polypropylene	0.01 in (0.25 mm)	0.044 in (1.1 mm)	Gray & White, Yellow & Orange, Blue & Green, Black, Red, & Purple
Conductor(s)	PP - Polypropylene	0.01 in (0.25 mm)	0.035 in (0.89 mm)	Yellow, Orange, White

Inner Shield

Shield Type	Material	Coverage
Tape	Bi-Laminate (Alum+Poly)	100%

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Tri-Laminate (Alum+Poly+Alum)	100%	24 AWG (7x32) TC
Braid	Tinned Copper (TC)	91%	

Outer Jacket

Separator	Material	Nom. Thickness	Nom. Diameter
Polyester Tape	PVC - Polyvinyl Chloride	0.032 in (0.81 mm)	0.26 in

Overall Cable Diameter (Nominal):	0.26 in

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedence	Nom. Velocity of Prop.	Max. Current
Pair(s)	73.5 Ohm/1000ft	19.7 pF/ft (64.6 pF/m)	35 pF/ft (110 pF/m)	78 Ohm	66%	0.9 Amps per Conductor at 30ºC
Conductor(s)	28.3 Ohm/1000ft (92.8 Ohm/km)					2.1 Amp per Conductor at 30ºC

Voltage

UL Voltage Rating
150 V (CL2), 30 V (AWM 2919)

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.	Installation Min.
2.6 in (66 mm)	2.6 in

Max. Pull Tension:	78 lbs (35 kg)
Bulk Cable Weight:	42 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor
Flammability / Reaction to Fire:	UL1685 UL Loading
NEC / UL Compliance:	Article 725, CL2
AWM Compliance:	AWM 2919
IEEE Compliance:	IEEE 802.3
European Directive Compliance:	EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.354 Revision Date: 05-05-2023

Part Numbers

Variants

Item #	Color	UPC
9898 E4X1000	Gray, Light Dec	612825260158