



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
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Conductors	No. of Pairs
28	7x36	TC - Tinned Copper		3
24	7x32	TC - Tinned Copper	3	

Conductor Count:	9
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Insulation

Element	Material	Nominal Wall Thickness
20	PP - Polypropylene	0.01 in

Color Chart

Number	Color
78 Ohm	Gray & White
78 Ohm	Yellow & Orange
78 Ohm	Blue & Green
Triplet	Black, Red, & Purple

Inner Shield

Type	Material	Material Trade Name	Coverage [%]
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	100%

Outer Shield

Type	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	1	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%	TC - Tinned Copper	24	7x32
Braid	2	Tinned Copper (TC)		91%			

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness	Separator Material
PVC - Polyvinyl Chloride	0.26 in	0.032 in	Polyester Tape

Electrical Characteristics

Conductor DCR

Element	Nominal Conductor DCR	Nominal Outer Shield DCR
28 AWG	65 Ohm/1000ft	2.5 Ohm/1000ft

24 AWG	24 Ohm/1000ft	
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Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
19.7 pF/ft	35 pF/ft

Impedance

Nominal Characteristic Impedance	Nominal Characteristic Tolerance
78 Ohm	± 5 Ohm

Delay

Max. Delay Skew	Nominal Delay	Nominal Velocity of Propagation (VP) [%]
66 ns/100m	1.56 ns/ft	66%

Current

Max. Recommended Current [A]
0.7 Amps per Conductor at 25°C

Voltage

UL Description	UL Voltage Rating
UL AWM Style 2919	30 V RMS (UL AWM Style 2919)
CL2	150 V RMS (CL2)

Temperature Range

UL Temp Rating:	80°C (UL AWM Style 2919)
Operating Temp Range:	-20°C To +80°C

Mechanical Characteristics

Bulk Cable Weight:	41 lbs/1000ft
Max. Pull Tension:	64 lbs
Min. Bend Radius/Minor Axis:	2.75 in

Standards

NEC/(UL) Compliance:	CL2
CEC/C(UL) Compliance:	CM
UL AWM Style Compliance:	2919 (30 V 80°C)
IEEE Compliance:	802.3

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
MIL Order #39 (China RoHS):	Yes

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 UL Loading
UL voltage rating:	30 V RMS (UL AWM Style 2919)

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	UPC
9898 E4X1000	Gray, Light Dec	612825260158

Footnote:	C - CRATE REEL PUT-UP.
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History

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