



Product: [9902](#)

Transceiver 10BASE5, #20-5pr, FPO, Isolated Shields, PVC Jkt, CM

Product Description

IEEE 802.3 Ethernet Transceiver 10BASE5, 20 AWG stranded (7x28) tinned copper conductors, Datalene® insulation, twisted pairs, overall polyester isolation tape + Duofoil® + tinned copper braid shield (95% coverage), drain wire, light gray PVC jacket.

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
20	7x28	TC - Tinned Copper	5

Conductor Count:	10
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Insulation

Material	Material Trade Name	Nominal Wall Thickness
FHDPE - Foamed High Density Polyethylene	Datalene®	0.02 in

Color Chart

Number	Color
1 (78 Ohm)	Gray & White
2 (78 Ohm)	Yellow & Orange
3 (78 Ohm)	Blue & Green
4 (78 Ohm)	Red & Brown
5 (Power)	Red & Black

Inner Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Aluminum Foil-Polyester Tape	Beldfoil®	100 %	TC - Tinned Copper	20	7x28

Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum/Polyester/Aluminum	Duofoil®	100 %
Braid	2	TC - Tinned Copper		95 %

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness	Separator Material
PVC - Polyvinyl Chloride	0.495 in	0.04 in	Polyester Tape

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
10.5 Ohm/1000ft	1.65 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
16.7 pF/ft	29.5 pF/ft

Impedance

Nominal Characteristic Impedance

78 Ohm

Delay

Max. Delay Skew Nominal Delay Nominal Velocity of Propagation (VP) [%]

78 ns/100m 1.3 ns/ft 78 %

Current

Max. Recommended Current [A]

2.1 Amps per conductor @ 25°C A

Voltage

UL Description UL Voltage Rating

UL AWM Style 2919 30 V RMS (UL AWM Style 2919)

CM 300 V RMS (CM)

Temperature Range

UL Temp Rating: 80°C (UL AWM Style 2919)

Operating Temp Range: -20°C To +80°C

Mechanical Characteristics

Bulk Cable Weight: 138 lbs/1000ft

Max Recommended Pulling Tension: 240 lbs

Min Bend Radius/Minor Axis: 5 in

Standards

NEC/(UL) Specification: CL2, CM

CEC/C(UL) Specification: CM

UL AWM Style: 2919 (30 V 80°C)

IEEE Specification: 802.3 10Base5

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2003/96/EC (BFR): Yes

EU Directive 2012/19/EU (WEEE): Yes

EU Directive Compliance: EU Directive 2003/11/EC (BFR)

EU CE Mark: Yes

EU RoHS Compliance Date (yyyy-mm-dd): 2004-01-01

MII Order #39 (China RoHS): Yes

Flammability, LSOH, Toxicity Testing

UL Flammability: UL1685 UL Loading

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

Plenum/Non-Plenum

Plenum (Y/N): No

Part Number

Variants

Item #	Color	UPC	Footnote
9902 E4X1000	Gray, Light Dec	612825260264	C
9902 E4X500	Gray, Light Dec	612825260271	C

Footnote: C - CRATE REEL PUT-UP.

Product Notes

Notes: Polyester separator tape over cabled pairs

History

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