

**9903 Paired - 10 Base 5 Transceiver**

	<p>For more information please call <b>1-800-Belden1</b></p> <p><u>See Put-ups and Colors</u></p>
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**Description:**

4 Pairs, 3 - 28 AWG (7x32) tinned copper conductors, 1 - 24 AWG (7x36), all individually shielded, overall isolated Duofoil® plus tinned copper braid shield, PVC jacket.

**SUITABLE APPLICATIONS:**

Suitable Applications	IEEE 802.3 Transceiver Cable
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**PHYSICAL CHARACTERISTICS:**

**CONDUCTOR:**

Number of Pairs	4
Total Number of Conductors	8

AWG :

Number of Pairs	AWG	Stranding	Conductor Material	Conductor Diameter (in.)
3	28	7x36	TC - Tinned Copper	
1	24	7x32	TC - Tinned Copper	

Stranding	7x36, 7x32
Conductor Material	TC - Tinned Copper

**INSULATION:**

Insulation Material	PP - Polypropylene
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**PAIR:**

Pair Shield Material Trade Name	Beldfoil® (Z-Fold®)
Pair Shield Type	Tape
Pair Shield Material	Aluminum Foil-Polyester Tape
Pair Shield % Coverage	100 %

Pair Color Code Chart :

Number	Color	Number	Color
78 Ohm	Gray & White	78 Ohm	Blue & Green
78 Ohm	Yellow & Orange	Power	Black & Red

**INNER SHIELD:**

**INNER SHIELD DRAIN WIRE :**

Inner Shield Drain Wire AWG	24
Inner Shield Drain Wire Stranding	7x32
Inner Shield Drain Wire Conductor Material	TC - Tinned Copper

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**OVERALL CABLING:**

Overall Cabling Separator Material	Polyester Tape
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**OUTER SHIELD:**

Outer Shield Material Trade Name	Duofoil®
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Outer Shield Type	Tape/Braid
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Outer Shield Material :

Layer Number	Material Trade Name	Type	Material	% Coverage (%)
1	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	TC - Tinned Copper	92

Outer Shield % Coverage	100 %
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**OUTER JACKET:**

Outer Jacket Material	PVC - Polyvinyl Chloride
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**OVERALL NOMINAL DIAMETER:**

Overall Nominal Diameter	.250 in.
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**MECHANICAL CHARACTERISTICS:**

Operating Temperature Range	-20°C To +80°C
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UL Temperature Rating	80°C (UL AWM Style 2919)
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Bulk Cable Weight	41 lbs/1000 ft.
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Max. Recommended Pulling Tension	68 lbs.
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Min. Bend Radius (Install)	2.5 in.
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**APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:**

**APPLICABLE STANDARDS:**

NEC/(UL) Specification	CMG
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CEC/C(UL) Specification	CMG
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AWM Specification	2919 (30 V 80°C)
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IEEE Specification	IEEE802.3
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**FLAME TEST:**

UL Flame Test	UL1685 UL Loading
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CSA Flame Test	FT4
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**PLENUM/NON-PLENUM:**

Plenum (Y/N)	N
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**ELECTRICAL CHARACTERISTICS:**

Nom. Characteristic Impedance	78 ± 5 Ohms
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Nom. Capacitance Conductor to Conductor @ 1 KHz	19.7 pF/ft
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Nom. Cap. Cond. to Other Cond. & Shield @ 1 KHz	34.8 pF/ft
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**9903 Paired - 10 Base 5 Transceiver**

Nominal Velocity of Propagation	66 %
Nominal Delay	1.54 ns/ft
Nom. Conductor DC Resistance @ 20 Deg. C :	
<b>Description</b>	<b>Nom. Conductor DC Resistance @ 20 Deg. C (Ohms/1000 ft)</b>
28 AWG	65
24 AWG	24
Nominal Outer Shield DC Resistance @ 20 Deg. C	2.9 Ohms/1000 ft
Max. Operating Voltage - UL	30 V RMS
Other Maximum Continuous Currents	.875 Amps per conductor at 25°C (28 AWG); 1.5 Amps per conductor at 25°C (24 AWG)

**PUT-UPS AND COLORS:**

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
9903 E4X1000	1#24,3#28 SHPR PP SH PVC	1000	43	GRAY, LIGHT DEC	C
9903 E4X500	1#24,3#28 SHPR PP SH PVC	500	21.5	GRAY, LIGHT DEC	

C = CRATE REEL PUT-UP.

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