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1-800-Belden1



### Description:

28 and 24 AWG stranded TC conductors, non-plenum, Polypropylene insulation, twisted pairs, overall polyester isolation tape + Duofoil® + TC braid shield (92% coverage), drain wire, light gray PVC jacket.

### Usage (Overall)

**Suitable Applications:** IEEE 802.3 Transceiver Cable

### Physical Characteristics (Overall)

#### Conductor

**AWG:**

# Pairs	AWG	Stranding	Conductor Material
3	28	7x36	TC - Tinned Copper
1	24	7x32	TC - Tinned Copper

#### Insulation

**Insulation Material:**

**Insulation Material**

PP - Polypropylene

#### Inner Shield

**Inner Shield Material:**

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

**Inner Shield Drain Wire AWG:**

**AWG**

24

**Inner Shield Drain Wire Stranding:** 7x32

**Inner Shield Drain Wire Conductor Material:** TC - Tinned Copper

#### Outer Shield

**Outer Shield Material:**

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

#### Outer Jacket

**Outer Jacket Material:**

**Outer Jacket Material**

PVC - Polyvinyl Chloride

#### Overall Cable

**Overall Cabling Separator Material:** Polyester Tape

**Overall Nominal Diameter:** 0.250 in.

#### Pair

**Pair Color Code Chart:**

Number	Color
78 Ohm	Gray & White
78 Ohm	Yellow & Orange

78 Ohm	Blue & Green
Power Pair	Black & Red

## Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 2919)
Bulk Cable Weight:	41 lbs/1000 ft.
Max. Recommended Pulling Tension:	68 lbs.
Min. Bend Radius (Install)/Minor Axis:	2.500 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMG
CEC/C(UL) Specification:	CMG
AWM Specification:	UL Style 2919 (30 V 80°C)
IEEE Specification:	IEEE802.3
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

### Flame Test

UL Flame Test:	UL1685 UL Loading
CSA Flame Test:	FT4

### Plenum/Non-Plenum

Plenum (Y/N):	No
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## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)	Tolerance (Ohms)
78	± 5

### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
19.7

### Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)
34.8

### Nominal Velocity of Propagation:

VP (%)
66

### Nominal Delay:

Delay (ns/ft)
1.54

### Nom. Conductor DC Resistance:

Description	DCR @ 20°C (Ohm/1000 ft)
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28 AWG	65
24 AWG	24

**Nominal Outer Shield DC Resistance:**

<b>DCR @ 20°C (Ohm/1000 ft)</b>
2.9

**Max. Operating Voltage - UL:**

<b>Voltage</b>
30 V RMS

**Max. Recommended Current:**

<b>Current</b>
.875 Amps per conductor at 25°C (28 AWG); 1.5 Amps per conductor at 25°C (24 AWG)

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9903 E4X1000	1,000 FT	43.000 LB	GRAY, LIGHT DEC	C	1#24,3#28 SHPR PP SH PVC
9903 E4X500	500 FT	21.500 LB	GRAY, LIGHT DEC		1#24,3#28 SHPR PP SH PVC

**Notes:**

C = CRATE REEL PUT-UP.

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### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9