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1-800-Belden1



### General Description:

20 AWG stranded (7x28) tinned copper conductors, FEP insulation, twisted pairs, individual Beldfoil® shields (100% coverage), overall polyester isolation tape and Duofoil® shield plus a tinned copper braid shield (95% coverage), fluorocopolymer jacket.

### Usage (Overall)

Suitable Applications: 10Base5 Transceiver

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
4	20	7x28	TC - Tinned Copper

Total Number of Conductors: 8

#### Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Wall Thickness (in.)
Teflon®	FEP - Fluorinated Ethylene Propylene	0.011

#### 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
22

Inner Shield Drain Wire Stranding: 7x30

#### 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	95

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVDF - Fluorocopolymer	0.014

#### Overall Cable

Overall Cabling Separator Material: Polyester Tape

Overall Nominal Diameter: 0.359 in.

#### Pair

Pair Color Code Chart:

Number	Color
1	Gray & White
2	Yellow & Orange
3	Blue & Green
4	Red & Black

### Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +150°C

UL Temperature Rating: 150°C

Bulk Cable Weight: 90 lbs/1000 ft.

Max. Recommended Pulling Tension: 175 lbs.

Min. Bend Radius/Minor Axis:	3.750 in.
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**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
IEEE Specification:	IEEE802.3
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005
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
Customer Part Number Reference Specification:	1700321-02

**Flame Test**

UL Flame Test:	NFPA 262
CSA Flame Test:	FT6

**Plenum/Non-Plenum**

Plenum (Y/N):	Yes
Non-Plenum Number:	9901

**Electrical Characteristics (Overall)****Nom. Characteristic Impedance:**

Impedance (Ohm)	Tolerance (Ohms)
78	± 5

**Nom. Inductance:**

Inductance (µH/ft)
.2

**Nom. Capacitance Conductor to Conductor:**

Capacitance (pF/ft)
16.7

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

Capacitance (pF/ft)
29.5

**Nominal Velocity of Propagation:**

VP (%)
78

**Nominal Delay:**

Delay (ns/ft)
1.30

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)
9.5

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)
1.5

**Max. Attenuation:**

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Attenuation (dB/100 m)
	10			6

**Max. Operating Voltage - UL:**

Voltage
300 V RMS

**Max. Recommended Current:**

Current
2.8 Amps per conductor @ 25°C

## 89892 Multi-Conductor - 10 Base 5 Transceiver

**Notes (Overall)**

**Notes:** Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
89892 0011000	1,000 FT	99.000 LB	BROWN	C	4 FS PR#20 FEP SH SLF
89892 001500	500 FT	49.000 LB	BROWN	C	4 FS PR#20 FEP SH SLF

**Notes:**

C = CRATE REEL PUT-UP.

Revision Number: 2    Revision Date: 10-17-2012

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