Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



89892 Multi-Conductor - 10 Base 5 Transceiver



For more Information please call

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 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 Beldfoil® (Z-Fold®) Tape | Aluminum Foil-Polyester Tape | 100 Inner Shield Drain Wire AWG: Inner Shield Drain Wire Stranding: 7x30 **Outer Shield** Outer Shield Material: Layer # Outer Shield Trade Name Type Outer Shield Material **Duofoil®** Tape | Aluminum Foil-Polyester Tape-Aluminum Foil | 100 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 Gray & White

Mechanical Characteristics (Overall)

Yellow & Orange Blue & Green Red & Black

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.

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2.8 Amps per conductor @ 25°C



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Applicable Specifications and Agency Compliance (Overall) Applicable Standards & Environmental Programs NECFULI Specification: CECCULI Specification:	Min. Bend Radius/Minor Axis:	3.750 in.
Applicable Standards & Environmental Programs NEC(UL) Specification: CEOCIO (UL) Specification: EIEE Specification: EIEE Specification: EIEE Specification: EIEE Specification: EIEE Specification: EIEE Directive 200296/EC (ReVIS): Ves EIU Directive 200296/EC (ReVIS): Ves Customer Part Number Reference Specification: 1700321-62 Flame Test: NFPA 202 CEA Flame Test: NFPA 202 CEA Flame Test: NFPA 202 CEA Flame Test: Plenum/Non-Plenum Number: EIC-trical Charactoristics (Overall) Non-Directoristics (Directive 2002) Non-Plenum Number: Flame Test: Non-Expecitance (Omin) 10 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Applicable Specifications and Agency Complianc	e (Overall)
NECLUS, Specification: CECNO(UL), Specification: EEEE Specification: EU Directive 2002/95EC (RuNs): Pee EU Directive 2002/95EC (RuNs): EU Roris Compliance Date (mindutyry): EU Directive 2002/95EC (Runs): Pee EU Directive 2002/95EC (Runs)		o (Overlan)
IEEE Specification: IEEE Specification: IEEE Specification: IEEE Specification: IEEE Specification: IEEE Specification: Ves		CMP
EU Directive 2002/95EC (ELV): Yes EU Directive 2002/95EC (RoHS): Yes EU RoHS Compliance Date (mmiddlyyyy): 0401/2005 EU Directive 2002/95EC (MEEE): Yes CA Prop 65 (CJ for Wire & Cable): Yes CA Prop 65 (CJ for Wire & Cable): Yes Customer Part Number Reference Specification: 17/03/21-02 Flame Test UL Flame Test: NFPA 2/02 CSA Flame Test: FT6 Plenum/Non-Plenum Plenum (Yh): Yes Non-Plenum Number: 9901 Electrical Characteristics (Overall) Non. Characteristic (Impedance: Impedance (Dhms) 70	CEC/C(UL) Specification:	CMP
EU Directive 2002/95EC (Rolfs): Yes EU Rolfs Compliance Data (mm/ddyyyy): 0401/2005 EU Directive 2002/95EC (WEEE): Yes EU Directive 2002/95EC (WEEE): Yes EU Directive 2002/95EC (WEEE): Yes CA Prop 65 (CJ for Wire & Cable): Yes MII O'der #39 (China Rolfs): Yes MII O'der #39 (China Rolfs): Yes UL Flame Test: NFPA 282 UL Flame Test: NFPA 282 CSA Flame Test: FTG Plonum/Non-Plonum Plenum (YN): Yes Non-Plenum Number: 9901 Electrical Characteristics (Overall) Non. Characteristics (Overall) Non. Characteristics (Impedance: Impedance: Impedance (phrs) 75 1=5 Non. Midcatence Indicatence (pff) 16.7 Non. Capacitance Conductor to Conductor & Shield: Describer (Int) 296 Non. Capacitance (pff) 16.7 Non. Capacitance Conductor to Conductor & Shield: Describer (Int) 296 Non. Capacitance (pff) 16.7 Non. Capacitance (pff)	IEEE Specification:	IEEE802.3
EU Directive 2002/95/EC (RMS): Yes EU RothS Compliance Date (mm/ddyyyy): D40112005 EU Directive 2002/11/EC (IEFR): Yes EU Directive 2002/11/EC (IEFR): Yes CA Prop 65 (CJ for Wire & Cable): Yes MID Order #39 (China Roths): Yes CLastomer Part Number Reference Specification: 177002/1-02 Flame Test UL Flame Test: NFPA 202 CSA Flame Test: PFT6 Plenum/Non-Plenum Plenum (NM): Yes Plenum/Non-Plenum Plenum (NM): Yes Non-Plenum Number: 9901 Electrical Characteristics (Overall) Nonc. Characteristics (Overall) Nonc. Anacteristic Impedance: Impedance: Impedance: Impedance (DMT) To 1 5 Nonc. Appaciance GPFR) [15 7 Nonc. Speciance GPFR) [16 7 Nonc. Capaciance GPFR) [17 7 [17 7 [18 7 Nonc. Capaciance GPFR) [18 7 Nonc. Appaciance GPFR) [19 7 [10 7 [10 8] Nonc. Appaciance GPFR0 [10 8] [10 9] Nonc. Appaciance GPFR0 [10 9] Nonc. Appacian	EU Directive 2000/53/EC (ELV):	Yes
EU Driective 2003/99/EC (WEEE); Yes EU Directive 2003/99/EC (WEEE); Yes CA Prop 65 (Cul for Virus & Casble); Yes CA Prop 65 (Cul for Virus & Casble); Yes Customer Part Number Reference Specification: 17003/21-02 Filame Test: NFTA 262 CSA Flame Test: NFTA 262 CSA Flame Test: FT6 Penum/Non-Pienum Pienum (YM): Yes Non-Pienum Number: 9001 Electrical Characteristics (Overall) Non-Characteristics (Overall) Non-Characteristics (Overall) Non-Characteristic Impedance: Unimpedance (Ohins) To 25 Non- Inductance: (Lift) 2 Non-Capacitance Conductor to Conductor: & Shield: Capacitance (FIF) To 2 Non-Capacitance Conductor to Conductor: & Shield: Capacitance (FIF) To 2 Non-Capacitance Conductor to Conductor: & Shield: Capacitance (FIF) To 2 Non-Capacitance (FIF) To 3 Non-Capacitance (FIF) To 4 Non-Capacitance (FIF) To 4 Non-Capacitance (FIF) To 5 Non-Capacitance (FIF) To 5 Non-Capacitance (FIF) To 7 Non-Capacit		Yes
EU Directive 2023/96EC (WEEE): Yes EU Directive 2023/916EC (GPR): Yes C.A Prop 85 (CJ for Wins & Cable): Yes Mill Order 932 (China RohS): Yes Customer Part Number Reference Specification: 1700321-02 Flame Test U. Flame Test: NFPA 282 CSA Flame Test: F16 Plenum/Non-Plenum Plenum (Vin): Yes Non-Plenum Number: 9901 Ron-Plenum Number: 9901 Ron-Plenum Tolerance (China) Ron-Rod-Rod-Rod-Rod-Rod-Rod-Rod-Rod-Rod-Rod		
EU Directive 2003/11/EC (BFR): Yes CA Prop 55 (CJ for Wire & Cable): Yes Mil Order #39 (China RoH5): Yes Customer Part Number Reference Specification: 17030321-02 Flame Test: NFFA 262 CSA Flame Test: F16 Plenum/Non-Plenum Plenum (Yih): Yes Non-Plenum Number: 9901 Indications (China Tolerance China) Non-Plenum Number: 9901 Indications (GHR) 2 Non-Bacteristic Impedance: Impedance (GHR) Non-Bacteristic Impedance (GHR) 2 Non-Capacitance (GHR) 2 Non-Capacitance (GHR) 2 Non-Capacitance Conductor to Conductor: Speciations (GHR) 2 Non-Capacitance (GHR) 2 Non-Capacitance (GHR) 2 Non-Capacitance Cond. to Other Conductor & Shield: Capacitance (GHR) 20 Non-Capacitance (GHR) 3 Non-Capacitance (
CA Prop 65 (CJ for Wire & Cable): MI Order #39 (China RokS): Customer Part Number Reference Specification: 1700321-d2 Filame Test: U. Filame Test: NFPA 282 CSA Filame Test: Penum (YN): Yes Non-Renum Number: Plenum (YN): Yes Non-Renum Number: S9001 Silicitrical Characteristics (Overall) Non. Characteristic Impedance: Impedance (Ohm) Tolerance (Ohms) 78 15 Non. Inductance: Impedance (Prifi) 15.7 Non. Speciance Conductor to Conductor: Capacitance (Prifi) 15.7 Non. Capacitance Cond. to Other Conductor & Shield: Capacitance (Prifi) 2.0 Solver (C) (Propagation: VP (Y) Tolerance (Prifi) 1.5 Non. Inductor (Prifi) 3.5 Non. Inductor (Prifi		
Mull Order #39 (China RoHS): Yes Caustomer Part Number Reference Specification: 1703321-02 Filame Test: NFPA 292 CSA Flame Test: F16 Plenum/Non-Plenum Plenum (VN): Yes Non-Plenum Number: 9901 Cilectrical Characteristics (Overall) Non. Abracteristic Impedance (Ohms) 75		
Customer Part Number Reference Specification: 1700321-02 Flame Test: NFPA 262 CSA Flame Test: FT6 Plenum/Non-Plenum Plenum (YN): Yes Non-Plenum Number: 9901 Icitorical Characteristics (Overall) Non. Characteristic Impedance: Impedance (Phim) Tolerance (Ohms) 78		
Flame Test UL Fame Test: F16 CSA Flame Test: F16 Plenum/Non-Plenum Plenum (Y/N): Yes Non-Plenum Number: 9801 Selectrical Characteristics (Overall) Non. Characteristic Impedance: Impedance (Ohm) Tolerance (Ohms) 72 2 5 Non. Inductance: Inductance: Inductance (pifft) 2 2 Non. Capacitance Cond. to Other Conductor: Capacitance (pifft) 22.5 Non. Magacitance (pifft) 23.5 Nonminal Velocity of Propagation: VP (Y/6) 78 Nonminal Velocity of Propagation: Does gard (Cham/1000 ft) 1.30 Non. Conductor DC Resistance: Does gard (Cham/1000 ft) 1.5 Max. Attenuation: Description Feq. (MHz) Start Freq. (MHz) Stop Freq. (MHz) Attenuation (dB/100 m) Max. Operating Voltage - UL: Voltage 300 V RMS		Yes
UL Flame Test: FT6 CSA Flame Tost: FT6 Plenum/Non-Plenum Plenum (Nyl): Yes Non-Plenum Number: 9901 Clectrical Characteristics (Overall) Nom. Characteristics (Impedance (Dhms)) 78 ± 5 Nom. Inductance: Impedance (Dhm) Tolerance (Dhms) 78 ± 5 Nom. Inductance: Impedance (Drift) 2 2 Nom. Capacitance (Drift) 2 3 Nom. Capacitance (Prift) 3 16.7 Nom. Spacitance (Prift) 3 18.7 Nom. Capacitance (Prift) 3 Nom. Capacitance (Prift) 4 28.5 Nominal Volcity of Propagation: VP (%) 78 Nominal Volcity of Propagation: VP (%) 78 Nominal Volcity of Propagation: VP (%) 8 Nominal Volcity of Propagation:	Customer Part Number Reference Specification:	1700321-02
CSA Flame Test: FT6 Plenum (YN): Yes Non-Plenum Number: 9901 Electrical Characteristics (Overall) Non.Characteristic Impedance:		
Plenum (YN): Plenu	UL Flame Test:	NFPA 262
Plenum (Y/N): Yes Non-Plenum Number: 9901 Electrical Characteristics (Overall) Nom. Characteristic Impedance (Ominy) 78	CSA Flame Test:	FT6
Non-Pienum Number: 9901 Selectrical Characteristics (Overall) Nom. Characteristic (Impedance (Ohms) 78		
Electrical Characteristics (Overall) Nom. Characteristic impedance: Impedance (Ohm) Tolerance (Ohms) 78		
Nom. Inductance (Ohm) Tolerance (Ohms) 78	Non-Plenum Number:	9901
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) Attenuation (dB/100 m) 10 Max. Operating Voltage - UL: Voltage 300 V RMS	Capacitance (pF/ft) 16.7 Nom. Capacitance Cond. to Other Conductor & Shield: Capacitance (pF/ft)	
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 Max. Operating Voltage - UL: Voltage 300 V RMS	VP (%) 78 Nominal Delay: Delay (ns/ft)	
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Max. Operating Voltage - UL: Voltage 300 V RMS		Attenuation (dB/100 m)
Voltage 300 V RMS		
Voltage 300 V RMS	Max. Operating Voltage - UL:	
Max. Recommended Current:	Voltage	

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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	С	4 FS PR#20 FEP SH SLF
89892 001500	500 FT	49.000 LB	BROWN	С	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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CX6543-000 CXA-0066-20-4-9CS2973 CXA-0078-16-1-9CS2405 CXA-0078-22-4-9CS2405 CXA-0078-24-4-9CS2405 CXA-0140-16-6/99CS2405 CY0660-000 706/2R-BLACK-EACH 720451-000 730859-000 MCC-USB-4-250 752687-000 768146-000 773159-000 7934ABLK-1000 8125-CHR-100 8164-CHR-1000 820457-000 8205-CHR-1000 8240-BLK-U1000 82723-NAT-1000 82907-NAT-500 83003YEL-500 83005-WHT-500 83006-DK-GRN-100 83008-WHT-1000