Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



3105A Multi-Conductor - EIA Industrial RS-485 PLTC/CM

7

For more Information please call

1-800-Belden1



General Description:

CEC/C(UL) Specification:

EU CE Mark:

EU Directive 2011/65/EU (ROHS II):

EU Directive 2000/53/EC (ELV):

22 AWG stranded (7x30) tinned copper conductors, Datalene® insulation, twisted pairs, overall Beldfoil® shield (100% coverage) plus a tinned copper braid (65% coverage), drain wire, UV resistant PVC jacket.

Physical Characteristics (Overall) Conductor AWG: # Pairs AWG Stranding Conductor Material Dia. (in.) 22 7x30 TC - Tinned Copper | .030 **Total Number of Conductors:** 2 Insulation Insulation Material: Insulation Trade Name Insulation Material FHDPE - Foam High Density Polyethylene **Outer Shield** Outer Shield Material: Layer # Outer Shield Trade Name Type Outer Shield Material Coverage (%) Tape | Aluminum Foil-Polyester Tape | 100.000 Braid | TC - Tinned Copper 65.000 Outer Shield Drain Wire AWG: AWG Stranding Drain Wire Conductor Material 7x30 TC - Tinned Copper **Outer Jacket** Outer Jacket Material: **Outer Jacket Material** PVC - Polyvinyl Chloride **Overall Cable Overall Nominal Diameter:** 0.281 in. Pair Pair Color Code Chart: Number Color White/Blue Stripe and Blue/White Stripe Pair Lay Length & Direction: Lay Length (in.) **Mechanical Characteristics (Overall)** Operating Temperature Range: -20°C To +60°C 80C Non-UL Temperature Rating: **Bulk Cable Weight:** 44 lbs/1000 ft Max. Recommended Pulling Tension: 60 lbs. Min. Bend Radius/Minor Axis: 2.800 in. Applicable Specifications and Agency Compliance (Overall) **Applicable Standards & Environmental Programs** NEC/(UL) Specification: CM, PLTC

CM

Yes

Yes

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EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	10/01/2005
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
Flame Test	
UL Flame Test:	UL1685 UL Loading
CSA Flame Test:	FT1
Suitability	
Sunlight Resistance:	Yes
Oil Resistance:	Yes - Oil Res II
Plenum/Non-Plenum	
Plenum (Y/N):	No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft) 11.0

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

Nominal Velocity of Propagation:

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 3.760

Nom. Attenuation:

Description Freq. (MHz) Start Freq. (MHz) Stop Freq. (MHz) Attenuation (dB/100 ft.)

Max. Operating Voltage - UL:

300 V RMS (NEC Type PLTC) 300 V RMS (NEC Type CM)

Max. Recommended Current:

Current 2.7 Amps per conductor @ 25°C

Other Electrical Characteristic 1:

Input Impedance/Unfitted Impedance .5 - 10 MHZ, 120 +-12 Ohms

Notes (Overall)

Notes: Oil Resistance: Passes Oil Res II Per UL1277, Table 10.17. For CPE jacketed version order Part No. YR44345.

Put Ups and Colors:

No put ups and colors are available for this product

Revision Number: 4 Revision Date: 03-20-2017

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