BELDEN Product Details

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3109A



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

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.

For more Information please call

1-800-Belden1



Put Ups and Colors:

Item# Putup Ship Weight Color Notes Item Desc

Notes:

C = CRATE REEL PUT-UP.

Physical Characteristics (Overall)

Conductor

AWG:

Pairs AWG Stranding Conductor Material Dia. (mm)

4 22 7x30 TC - Tinned Copper 0.762

Total Number of Conductors:

Insulation

Insulation Material:

Insulation Trade Name Insulation Material

Datalene® FHDPE - Foam High Density Polyethylene

Outer Shield

Outer Shield Material:

Layer # Outer Shield Trade NameTypeOuter Shield MaterialCoverage (%)1Beldfoil®TapeAluminum Foil-Polyester Tape100.0002BraidTC - Tinned Copper65.000

Outer Shield Drain Wire AWG:

AWG Stranding Drain Wire Conductor Material

22 7x30 TC - Tinned Copper

Outer Shield Drain Wire Diameter: .030

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Cabling Color Code Chart:

Number Color

- 1 White/Blue Stripe & Blue/White Stripe
- 2 White/Orange Stripe & Orange/White Stripe
- 3 White/Green Stripe & Green/White Stripe
- 4 White/Brown Stripe & Brown/White Stripe

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Overall Nominal Diameter: 11.379 mm

Mechanical Characteristics (Overall)

-20°C To +60°C **Operating Temperature Range:** Non-UL Temperature Rating: 60°C **Bulk Cable Weight:** 143.462 Kg/Km Max. Recommended Pulling Tension: 444.820 N Min. Bend Radius/Minor Axis: 139.700 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

UL Flame Test:	UL1685 UL Loading
ame Test	
MII Order #39 (China RoHS):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2002/96/EC (WEEE):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	10/01/2005
EU Directive 2002/95/EC (RoHS):	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
CEC/C(UL) Specification:	CM
NEC/(UL) Specification:	CM, PLTC OIL RES II

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CSA Flame Test: FT1

Suitability

Sunlight Resistance: Passes UL 1581, 720 Hours

Plenum/Non-Plenum

Plenum (Y/N): No

Surface Printing (Overall)

Electrical Characteristics (Overall)

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

36.091

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)

68.5729

Nominal Velocity of Propagation:

VP (%)

78

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

48.2307

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

4.5934

Nom. Attenuation:

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

1.6405

Max. Operating Voltage - UL:

Voltage

300 V RMS

Max. Recommended Current:

Current

2.7 Amps per conductor @ 25°C

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Input/Unfitted Impedance:

Description Freq. (MHz) Start Freq. (MHz) Stop Freq. (MHz) Impedance (Ohm)

120

Notes (Overall)

Notes: Oil Resistance: Passes Oil Res II Per UL1277, Table 10.17. For CPE jacketed version order Part No. YR44768.

Close

Revision Number: 1 Revision Date: 02-19-2009

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