Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

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



For more Information please call

1-800-Belden1



Description: 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.) 1 22 7x30 TC - Tinned Copper .030 Insulation **Insulation Material:** Insulation Trade Name Insulation Material Datalene® FHDPE - Foam High Density Polyethylene **Outer Shield Outer Shield Material:** Layer # Outer Shield Trade Name Type Outer Shield Material Coverage (%) Beldfoil® Tape Aluminum Foil-Polyester Tape 100.000 1 Braid TC - Tinned Copper 2 65.000 **Outer Shield Drain Wire AWG:** AWG Stranding Drain Wire Conductor Material 22 7x30 TC - Tinned Copper .030 **Outer Shield Drain Wire Diameter: Outer Jacket Outer Jacket Material: Outer Jacket Material** PVC - Polyvinyl Chloride **Overall Cabling Overall Nominal Diameter:** 0.284 in. Pair Pair Color Code Chart: Number Color 1 White/Blue Stripe and Blue/White Stripe Pair Lay Length & Direction: Lay Length (in.) 2.500

echanical Characteristics (Overall)	
Operating Temperature Range:	-20°C To +60°C
Non-UL Temperature Rating:	60°C
Bulk Cable Weight:	44 lbs/1000 ft.
Max. Recommended Pulling Tension:	60 lbs.
Min. Bend Radius (Install)/Minor Axis:	2.800 in.

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Applicable Specifications and Agency Co	• • •			
Applicable Standards & Environmental Progr	ams			
CEC/C(UL) Specification:	СМ			
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):	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			
Plenum/Non-Plenum				
Plenum (Y/N):	No			
Electrical Characteristics (Overall)				
Nom. Characteristic Impedance:				
Impedance (Ohm) 120				
Nom. Capacitance Conductor to Conductor:				
Capacitance (pF/ft) 11.0				
Nom. Capacitance Cond. to Other Conductor & Shi	ield:			
Capacitance (pF/ft)				
20.9				
Nominal Velocity of Propagation: VP (%) 78				
Nom. Conductor DC Resistance:				
DCR @ 20°C (Ohm/1000 ft) 14.7				
Nominal Outer Shield DC Resistance:				
DCR @ 20°C (Ohm/1000 ft) 2.8				
Nom. Attenuation:				
Description Freq. (MHz) Start Freq. (MHz) Stop Freq. ((MHz) Attenuation (dB/100 ft.)			
Max. Operating Voltage - UL:				
Voltage 300 V RMS				
Max. Recommended Current:				
Current				
Current 2.7 Amps per conductor @ 25°C				
2.7 Amps per conductor @ 25°C Input/Unfitted Impedance:				
2.7 Amps per conductor @ 25°C	MHz) Impedance (Ohm)			



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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:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
3105A 0101000	1,000 FT	46.000 LB	BLACK	С	1 PR #22 FHDPE SH PVC
3105A 010500	500 FT	21.500 LB	BLACK	С	1 PR #22 FHDPE SH PVC
3105A 0105000	5,000 FT	235.000 LB	BLACK	CN	1 PR #22 FHDPE SH PVC

Notes:

C = CRATE REEL PUT-UP

N = FINAL PUT-UP LENGTH MAY VARY -0% TO +10% FROM LENGTH SHOWN.

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