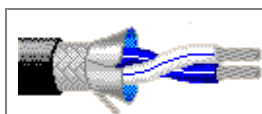


3105A Multi-Conductor - EIA Industrial RS-485 PLTC/CM



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 (90% coverage), drain wire, UV resistant PVC jacket.

Physical Characteristics (Overall):

Conductor:

AWG

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
1.000	22	7x30	TC - Tinned Copper	0.030

Insulation:

Insulation Material

Ins Trade Name	Ins Material
Datalene®	FHDPE - Foam High Density Polyethylene

Outer Shield:

Outer Shield Material

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	% Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	90

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 Cabling:

Overall Nominal Diameter: .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

Mechanical 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): 2.500 in.

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Applicable Specifications and Agency Compliance (Overall):

Applicable Standards:

NEC/(UL) Specification	CM, PLTC OIL RES II
CEC/C(UL) Specification	CM
EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy)	10/01/2005

Flame Test:

UL Flame Test	UL1685 UL Loading
CSA Flame Test	FT1

Suitability:

Sunlight Resistance	Passes UL 1581, 720 Hours
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Plenum/Non-Plenum:

Plenum (Y/N)	N
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Electrical Characteristics (Overall):

Nom. Characteristic Impedance

Impedance (Ohm)
120.000

Nom. Capacitance Conductor to Conductor

Capacitance (pF/ft)
11.000

Nom. Capacitance Cond. to Other Conductor & Shield

Capacitance (pF/ft)
20.900

Nominal Velocity of Propagation

VP (%)
78

Nom. Conductor DC Resistance

DCR @ 20°C (Ohm/1000 ft)
14.700

Nom. Attenuation

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Attenuation (dB/100 ft.)
	1.000			0.500

Max. Operating Voltage - UL

Voltage
300 V RMS

Max. Recommended Current

Current
2.7 Amps per conductor @ 25°C

Nominal Outer Shield DC Resistance

DCR @ 20°C (Ohm/1000 ft)
2.800

Input/Unfitted Impedance

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Impedance (Ohm)
	1.000			

Notes (Overall):

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

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PUT UPS AND COLORS:

Item #	Putup	Ship Weight	Jacket Color	Notes	Item Desc
3105A 0101000	1,000 FT	50.000 LB	BLACK	C	1 PR #22 FHDPE SH PVC BLK
3105A 010500	500 FT	23.000 LB	BLACK	C	1 PR #22 FHDPE SH PVC BLK
3105A 0105000	5,000 FT	255.000 LB	BLACK	C N	1 PR #22 FHDPE SH PVC BLK

Notes:

C = CRATE REEL PUT-UP.

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

Revision Number: 1 Revision Date: 05-14-2007

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