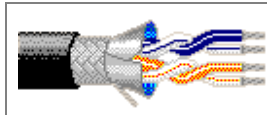


**3107A Multi-Conductor - EIA Industrial RS-485 PLTC/CM**



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.)
2.000	22	7x30	TC - Tinned Copper	0.030

**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 (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100.000
2		Braid	TC - Tinned Copper	65.000

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 Cabling:**

Overall Cabling Color Code Chart

Number	Color
1	White/Blue Stripe & Blue/White Stripe
2	White/Orange Stripe & Orange/White Stripe

Overall Nominal Diameter: 0.408 in.

**Mechanical Characteristics (Overall):**

Operating Temperature Range -20°C To +60°C

Non-UL Temperature Rating 60°C

Bulk Cable Weight: 73 lbs/1000 ft.

Max. Recommended Pulling Tension: 80 lbs.

Min. Bend Radius (Install)/Minor Axis: 4.100 in.

**Applicable Specifications and Agency Compliance (Overall):**

**Applicable Standards:**

NEC/(UL) Specification CM, PLTC OIL RES II

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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	Yes
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**Plenum/Non-Plenum:**

Plenum (Y/N)	No
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**Electrical Characteristics (Overall):**

Nom. Characteristic Impedance

<b>Impedance (Ohm)</b>
120.000

Nom. Capacitance Conductor to Conductor

<b>Capacitance (pF/ft)</b>
11.000

Nom. Capacitance Cond. to Other Conductor & Shield

<b>Capacitance (pF/ft)</b>
20.900

Nominal Velocity of Propagation

<b>VP (%)</b>
78

Nom. Conductor DC Resistance

<b>DCR @ 20°C (Ohm/1000 ft)</b>
14.700

Nominal Outer Shield DC Resistance

<b>DCR @ 20°C (Ohm/1000 ft)</b>
1.800

Nom. Attenuation

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

Max. Operating Voltage - UL

<b>Voltage</b>
300 V RMS

Max. Recommended Current

<b>Current</b>
2.7 Amps per conductor @ 25°C

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 YR46792.

**PUT UPS AND COLORS:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
3107A 0101000	1,000 FT	64.000 LB	BLACK	C	2 PR #22 FHDPE SH PVC BLK

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3107A 0104000	4,000 FT	284.000 LB	BLACK	C	2 PR #22 FHDPE SH PVC BLK
3107A 0105000	5,000 FT	360.000 LB	BLACK	C N	2 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.

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