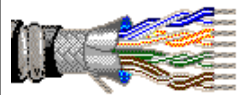


123109A Multi-Conductor - EIA Industrial RS-485 PLTC/CM



For more Information
please call

1-800-Belden1



Description

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

Physical Characteristics (Overall):

Conductor:

AWG

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
4	22	7x30	TC - Tinned Copper	0.30

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

Outer Jacket over Armor (y/n) Y

Outer Jacket Separator Material PVC - Polyvinyl Chloride

Armor:

Armor Type Interlocked

Armor Material Aluminum

Diameter over Armor .650 in. estimated

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: .750 in. estimated

Mechanical Characteristics (Overall):

Operating Temperature Range -40°C To +60°C

Non-UL Temperature Rating 60°C

Max. Recommended Pulling Tension: 911.881 N

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Min. Bend Radius (Install)/Minor Axis: 215.900 mm

Applicable Specifications and Agency Compliance (Overall):

Applicable Standards:

EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy)	05/10/2006

Flame Test:

UL Flame Test	UL1685 UL Loading
CSA Flame Test	FT4

Suitability:

Sunlight Resistance	Yes
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Electrical Characteristics (Overall):

Nom. Characteristic Impedance

Impedance (Ohm)
120.000

Nom. Capacitance Conductor to Conductor

Capacitance (pF/m)
36.091

Nom. Capacitance Cond. to Other Conductor & Shield

Capacitance (pF/m)
68.573

Nominal Velocity of Propagation

VP (%)
78

Nom. Conductor DC Resistance

DCR @ 20°C (Ohm/km)
48.231

Nominal Outer Shield DC Resistance

DCR @ 20°C (Ohm/km)
5.906

Nom. Attenuation

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Attenuation (dB/100m)
	1.000			1.641

Max. Operating Voltage - UL

Voltage
300 V RMS

Max. Recommended Current

Current
2.7 Amps per conductor @ 25°C

Input/Unfitted Impedance

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

PUT UPS AND COLORS:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
12310JA 0101000	305 MT	Ĝ í .0 ŠÓ	BLACK	Z	310JA AL ARMOR PVC - SPECIAL BLK
12310JA 0105000	1,524 MT	FHG .€LB	BLACK	C Z	310JA AIA PVC 300V BLK

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Notes:

C = CRATE REEL PUT-UP.

Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND(+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

Revision Number: 1 Revision Date: 05-28-2008

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