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please call

1-800-Belden1



## General 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.)
2	22	7x30	TC - Tinned Copper	.030

Total Number of Conductors: 4

### 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: .550

### Overall Cable

Overall Cabling Color Code Chart:

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

Overall Nominal Diameter: 0.650 in.

## Mechanical Characteristics (Overall)

## 123107A Multi-Conductor - EIA Industrial RS-485 PLTC/CM

Installation Temperature Range:	-20°C To +60°C
Operating Temperature Range:	-40°C To +60°C
UL Temperature Rating:	60°C
Non-UL Temperature Rating:	60°C
Max. Recommended Pulling Tension:	205 lbs.
Min. Bend Radius/Minor Axis:	8.500 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

EU Directive 2011/65/EU (ROHS II):	Yes
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):	05/10/2006
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:	FT4

#### Suitability

Sunlight Resistance:	Yes
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### 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 & Shield:

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)
1.8

#### Nom. Attenuation:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Attenuation (dB/100 ft.)
	1			.5

#### Max. Operating Voltage - UL:

Voltage
300 V RMS

## 123107A Multi-Conductor - EIA Industrial RS-485 PLTC/CM

**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			

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
123107A 0105000	5,000 FT	980.000 LB	BLACK	C Z	3107A AIA PVC 300V

**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: 08-08-2011

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