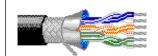




# 3108A Paired - EIA Industrial RS-485 PLTC/CM





Metric Version
For more information please call
1-800-Belden1

See Put-ups and Colors

## **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:

### **CONDUCTOR:**

Number of Pairs	3
Total Number of Conductors	6
AWG	22
Stranding	7x30
Conductor Diameter	0.762 mm
Conductor Material	TC - Tinned Copper

# **INSULATION:**

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

### **OVERALL CABLING:**

Overall Cabling Color Code Chart:

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

# **OUTER SHIELD:**

Outer Shield Material Trade Name Beldfoil®
Outer Shield Type Tape/Braid

### Outer Shield Material:

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

Outer Shield %Coverage 100 %





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OUTER	SHIELD	DRAIN	WIRE ·
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Outer Shield Drain Wire AWG

Outer Shield Drain Wire Stranding

Outer Shield Drain Wire Diameter

0.762 mm

Outer Shield Drain Wire Conductor Material TC - Tinned Copper

**OUTER JACKET:** 

Outer Jacket Material PVC - Polyvinyl Chloride

**OVERALL NOMINAL DIAMETER:** 

Overall Nominal Diameter 10.668 mm

#### **MECHANICAL CHARACTERISTICS:**

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

Non-UL Temperature Rating 60°C

Bulk Cable Weight 126.497 Kg/Km

Max. Recommended Pulling Tension 400.338 N

Min. Bend Radius (Install) 107.95 mm

#### APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

## APPLICABLE STANDARDS:

NEC/(UL) Specification
CEC/C(UL) Specification
CM
EU RoHS Compliant (Y/N)
Yes
EU RoHS Compliance Date (mm/dd/yyyy): 10/01/2005

#### FLAME TEST:

UL Flame Test
UL 1685 UL Loading
CSA Flame Test
FT1

#### **SUITABILITY:**

Sunlight Resistance Passes UL 1581, 720 Hours

## PLENUM/NON-PLENUM:

Plenum (Y/N)

#### **ELECTRICAL CHARACTERISTICS:**

Input/Unfitted Impedance:

Description	Frequency (MHz)	Start Frequency (MHz)	 Input/Unfitted Impedance (Ohms)
	1		

Nom. Characteristic Impedance 120 Ohms
Nom. Capacitance Conductor @ 1 KHz 36.091 pF/m



# **BELDEN**Cable<sup>\*\*</sup>

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Nom. Cap. Cond. to Other Cond. & Shield @ 1 KHz 68.573 pF/m

Nominal Velocity of Propagation 78 %

Nom. Conductor DC Resistance @ 20 Deg. C 48.231 Ohms/km

Nominal Outer Shield DC Resistance @ 20 Deg. C 4.922 Ohms/km

Nom. Attenuation (dB/100 ft):

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100m)
	1			1.64

Max. Operating Voltage - UL 300 V RMS

Max. Recommended Current 2.7 Amps per conductor @ 25°C

#### NOTES:

Notes Oil Resistance: Passes Oil Res II Per UL1277, Table 10.17. For CPE jacketed version order YR45287.

## **PUT-UPS AND COLORS:**

Item	Description	Put-Up (M)	Ship Weight (kgs.)	Jacket Color	Notes
3108A 0101000	3 PR #22 FHDPE SH PVC	304.8	42.222	BLACK	С
	00PR #22 FHDPE SH PVC	609.6	83.536	BLACK	С

## C = CRATE REEL PUT-UP.

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