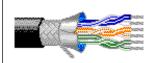


3108A Paired - EIA Industrial RS-485 PLTC/CM





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	.030 in.
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	Туре	Material	% Coverage (%)
1	Beldfoil®	Таре	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	90

Outer Shield %Coverage 100 %

OUTER SHIELD DRAIN WIRE:

Outer Shield Drain Wire AWG	22
Outer Shield Drain Wire Stranding	7x30



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

Outer Shield Drain Wire Diameter .030 in.

Outer Shield Drain Wire Conductor Material TC - Tinned Copper

OUTER JACKET:

Outer Jacket Material PVC - Polyvinyl Chloride

OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter .420 in.

MECHANICAL CHARACTERISTICS:

Operating Temperature Range $$-20^{\circ}\text{C}$\ \text{To}$\ +60^{\circ}\text{C}$$

Non-UL Temperature Rating 60°C

Bulk Cable Weight 85 lbs/1000 ft.

Max. Recommended Pulling Tension 90 lbs.

Min. Bend Radius (Install) 4.25 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

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

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 UL1685 UL Loading

CSA Flame Test FT1

SUITABILITY:

Sunlight Resistance Passes UL 1581, 720 Hours

PLENUM/NON-PLENUM:

Plenum (Y/N) N

ELECTRICAL CHARACTERISTICS:

Input/Unfitted Impedance:

Description F	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Input/Unfitted Impedance (Ohms)
1				
Nom. Characteristic Impedance		120 Ohms		
Nom. Capacitance Conductor to Conductor @ 1 KHz		11.0 pF/ft		
Nom. Cap. Cond. to Other Cond. & Shield @ 1 KHz		20.9 pF/ft		
Nominal Velocity of Propagation		78 %		
Nom. Conductor DC Resistance @ 20 Deg. C		14.7 Ohms/1000 ft		
Nominal Outer Shield DC Resistance @ 20 Deg. C		1.5 Ohms/1000 ft		
Nom. Attenuation (dB/100 ft)	:			



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

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100 ft.)		
	1			.5		
Max. Operating Voltage - U	JL	300 V RMS	300 V RMS			
Max. Recommended Curre	nt	2.7 Amps per conductor @	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 (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
3108A 0101000	3 PR #22 FHDPE SH PVC	1000	93	BLACK	С
3108A 0102000	00PR #22 FHDPE SH PVC	2000	184	BLACK	С

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 10-10-2005

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