Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



3106A 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:

# Conductors	# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
1	1	22	7x30	TC - Tinned Copper	.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/Orange Stripe
	2	Orange/White Stripe
	3	Blue/White Stripe

Overall Nominal Diameter: 0.300 in.

Pair

Pair Lay Length & Direction:



echanical Characteristics (Overall)				
Operating Temperature Range:	-20°C To +60°C			
Non-UL Temperature Rating:	60°C			
Bulk Cable Weight:	48 lbs/1000 ft.			
Max. Recommended Pulling Tension:	65 lbs.			

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Min. Bend Radius (Install)/Minor Axis: 3 in. **Applicable Specifications and Agency Compliance (Overall) Applicable Standards & Environmental Programs** CEC/C(UL) Specification: CM **EU CE Mark:** Yes EU Directive 2000/53/EC (ELV): Yes EU Directive 2002/95/EC (RoHS): Yes 10/01/2005 EU RoHS Compliance Date (mm/dd/yyyy): Yes EU Directive 2002/96/EC (WEEE): Yes EU Directive 2003/11/EC (BFR):

> Yes Yes

FT1

Flame Test

UL Flame Test: UL1685 UL Loading

CSA Flame Test:
Plenum/Non-Plenum

Plenum (Y/N): No

Surface Printing (Overall)

Electrical Characteristics (Overall)

CA Prop 65 (CJ for Wire & Cable):

MII Order #39 (China RoHS):

Nom. Inductance:

Inductance (µH/ft) .203

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) 2.8

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

Max. Recommended Current:

Current 2.7 Amps per conductor @ 25°C

Input/Unfitted Impedance:

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Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Impedance (Ohm)
	1			120

Notes (Overall)

Notes: Oil Resistance: Passes Oil Res II Per UL1277, Table 10.17. For CPE jacketed version order YR46721.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
3106A 0101000	1,000 FT	47.000 LB	BLACK	С	#22 FS PR,1#22PVCBRDPVC
3106A 010500	500 FT	25.000 LB	BLACK	С	#22FSPR,1#22PVCBRDPVC
3106A 0105000	5,000 FT	240.000 LB	BLACK	CN	#22 FS PR,1#22PVCBRDPVC

Notes:

C = CRATE REEL PUT-UP.

N = FINAL PUT-UP LENGTH MAY VARY -0% TO +10% FROM LENGTH SHOWN.

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