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1-800-Belden1



General 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. (mm)
1	1	22	7x30	TC - Tinned Copper	0.762

Total Number of Conductors: 3

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 Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Cabling Color Code Chart:

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

Overall Nominal Diameter: 7.620 mm

Pair

Pair Lay Length & Direction:

Lay Length (mm)
76.2

Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +60°C
Non-UL Temperature Rating:	60°C
Bulk Cable Weight:	78.875 Kg/Km
Max. Recommended Pulling Tension:	289.133 N

Min. Bend Radius/Minor Axis:	76.200 mm
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Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CM, PLTC
CEC/C(UL) Specification:	CM
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):	10/01/2005
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:	FT1

Suitability

Sunlight Resistance:	Yes
Oil Resistance:	Yes - Oil Res II

Plenum/Non-Plenum

Plenum (Y/N):	No
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Surface Printing (Overall)

Surface Printing:	BELDEN 3106A E34972 3C22 SHIELDED (UL) CM OR PLTC SUN RES OR C(UL) CM --- FT4
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Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Description
120

Nom. Inductance:

Inductance (µH/m)
0.666043

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
36.091

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)
68.5729

Nominal Velocity of Propagation:

VP (%)
78

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
48.2307

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

METRIC MEASUREMENT VERSION

3106A Multi-Conductor - EIA Industrial RS-485 PLTC/CM

10.926

Nom. Attenuation:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Attenuation (dB/100m)
	1			1.6405

Max. Operating Voltage - UL:

Voltage
300 V RMS (NEC Type PLTC)
300 V RMS (NEC Type CM)

Max. Recommended Current:

Current
2.7 Amps per conductor @ 25°C

Other Electrical Characteristic 1: Input Impedance/Unfitted Impedance .5 - 10 MHZ, 120 +-12 Ohms

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	52.000 LB	BLACK	C	#22 FS PR,1#22PVCBRDPVC
3106A 010500	500 FT	27.000 LB	BLACK	C	#22 FS PR,1#22PVCBRDPVC
3106A 0105000	5,000 FT	255.000 LB	BLACK	C N	#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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