**Print Preview** 

**Show Metric** 

3105A



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

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.

For more Information Please call

1-800-Belden1



# **Put Ups and Colors:**

Item ##	Putup	Ship Weight	Color	Notes	Item Desc
3105A 0101000	1,000 FT	46.000 LB	BLACK	С	1 PR #22 FHDPE SH PVC
3105A 01010000	10,000 FT	490.000 LB	BLACK		1 PR #22 FHDPE SH PVC
3105A 010500	500 FT	23.000 LB	BLACK	С	1 PR #22 FHDPE SH PVC
3105A 0105000	5,000 FT	230.000 LB	BLACK	CN	1 PR #22 FHDPE SH PVC

#### Notes:

C = CRATE REEL PUT-UP.

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

# **Physical Characteristics (Overall)**

### Conductor

#### AWG:

# Pairs	AWG	Stranding	<b>Conductor Material</b>	Dia. (in.)
1	22	7x30	TC - Tinned Copper	.030

#### **Total Number of Conductors:**

2

#### Insulation

#### Insulation Material:

<b>Insulation Trade Name</b>	Insulation Material			
Datalene®	FHDPE - Foam High Density Polyethylene			

### **Outer Shield**

### **Outer Shield Material:**

Layer#	Outer Shield Trade Name	Туре	Outer Shield Material	Coverage (%)
1	Beldfoil®	Таре	Aluminum Foil-Polyester Tape	100.000
2		Braid	TC - Tinned Copper	65.000

#### Outer Shield Drain Wire AWG:

#### AWG Stranding Drain Wire Conductor Material

TC - Tinned Copper 22 7x30

#### **Outer Jacket**

#### **Outer Jacket Material:**

**Outer Jacket Material** PVC - Polyvinyl Chloride

#### **Overall Cable**

**Overall Nominal Diameter:** 0.281 in.

#### Pair

#### Pair Color Code Chart:

### Number Color

White/Blue Stripe and Blue/White Stripe

### Pair Lay Length & Direction:

Lay Length (in.)

3.750

# **Mechanical Characteristics (Overall)**

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

Non-UL Temperature Rating: 60°C

**Bulk Cable Weight:** 44 lbs/1000 ft.

Max. Recommended Pulling Tension: 60 lbs. Min. Bend Radius/Minor Axis: 2.800 in.

# **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		
Electrical Characteristics (Overall)			
Nom. Characteristic Impedance:			
Impedance (Ohm) 120			
Iom. Capacitance Conductor to Conductor:			
Capacitance (pF/ft)			
11.0			
om. 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 (dl	B/100 ft.)		
1 .5			
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 Part No. YR44345.

Close

Revision Number: 3 Revision Date: 01-06-2016

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