





**3106A Paired - EIA Industrial RS-485 PLTC/CM**

		<p><b>Metric Version</b> For more information please call <b>1-800-Belden1</b></p> <p><u>See Put-ups and Colors</u></p>
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**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	1
Number of Conductors	1
Total Number of Conductors	3
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
Lay Length	7.62 cm

**OVERALL CABLING:**

Overall Cabling Color Code Chart :

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



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Outer Shield % Coverage	100 %
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**OUTER SHIELD DRAIN WIRE :**

Outer Shield Drain Wire AWG	22
Outer Shield Drain Wire Stranding	7x30
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
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**OVERALL NOMINAL DIAMETER:**

Overall Nominal Diameter	7.62 mm
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**MECHANICAL CHARACTERISTICS:**

Operating Temperature Range	-20°C To +60°C
Non-UL Temperature Rating	60°C
Bulk Cable Weight	71.434 Kg/Km
Max. Recommended Pulling Tension	289.133 N
Min. Bend Radius (Install)	76.2 mm

**APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:**

**APPLICABLE STANDARDS:**

NEC/(UL) Specification	CM, PLTC OIL RES II
CEC/C(UL) Specification	CM
EU CE Mark (Y/N)	Yes
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
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**PLENUM/NON-PLENUM:**

Plenum (Y/N)	N
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**ELECTRICAL CHARACTERISTICS:**

Input/Unfitted Impedance :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Input/Unfitted Impedance (Ohms)
	1			120



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Nom. Inductance	0.666 $\mu$ H/m
Nom. Capacitance Conductor to Conductor @ 1 KHz	36.091 pF/m
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	9.187 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 YR46721.
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**PUT-UPS AND COLORS:**

Item	Description	Put-Up (M)	Ship Weight (kgs.)	Jacket Color	Notes
3106A 0101000	#22 FS PR,1#22PVCBRDPV C	304.8	23.154	BLACK	C
3106A 010500	#22FSPR,1#22PVCB RDPVC	152.4	12.258	BLACK	C
3106A 0105000	#22 FS PR,1#22PVCBRDPV C	1524	118.04	BLACK	C N

C = CRATE REEL PUT-UP.

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

Revision Number: 1      Revision Date: 12-01-2005

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