

## 3105A Paired - EIA Industrial RS-485 PLTC/CM

		<p style="text-align: center;"><b>For more information please call</b> <b>1-800-Belden1</b></p> <p style="text-align: center;"><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
Total Number of Conductors	2
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
Lay Length	2.5 in.

#### Pair Color Code Chart :

Number	Color
1	White/Blue Stripe and 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

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	.030 in.
Outer Shield Drain Wire Conductor Material	TC - Tinned Copper

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### OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride
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### OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.284 in.
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### MECHANICAL CHARACTERISTICS:

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 (Install)	2.5 in.

### 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			

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	2.8 Ohms/1000 ft
Nom. Attenuation (dB/100 ft) :	

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Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
	1			.5

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 Part No. YR44345.

**PUT-UPS AND COLORS:**

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
3105A 0101000	1 PR #22 FHDPE SH PVC	1000	50	BLACK	C
3105A 010500	1 PR #22 FHDPE SH PVC	500	23	BLACK	C
3105A 0105000	1 PR #22 FHDPE SH PVC	5000	255	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: 10-10-2005

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