

3105T Multi-Conductor - EIA Industrial RS-485 PLTC/CMG



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 LSZH jacket.

Physical Characteristics (Overall):

Conductor:
AWG

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
1	22	7x30	TC - Tinned Copper	0.030

Total Number of Conductors 2

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
LSZH- Low Smoke Zero Halogen

Overall Cable:

Overall Nominal Diameter: 0.45 in.

Pair:

Pair Color Code Chart

Number	Color
1	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
Bulk Cable Weight:	115 lbs/1000 ft.
Max. Recommended Pulling Tension:	60 lbs.
Min. Bend Radius/Minor Axis:	4.500 in.

Applicable Specifications and Agency Compliance (Overall):

Applicable Standards & Environmental Programs:

NEC/(UL) Specification CMG, PLTC

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CEC/C(UL) Specification	CMG
EU Directive 2011/65/EU (ROHS II)	Yes
IEEE Specification	45
EU CE Mark	Yes
EU Directive 2000/53/EC (ELV)	Yes
EU Directive 2002/95/EC (RoHS)	Yes
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 FT4 Loading
C(UL) Flame Test	FT4
IEC Flame Test	60332-3-22 (Category A)

Suitability:

Sunlight Resistance	Yes
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Plenum/Non-Plenum:

Plenum (Y/N)	No
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Electrical Characteristics (Overall):

Nom. Characteristic Impedance

Impedance (Ohm)
120

Nom. Capacitance Conductor to Conductor

Capacitance (pF/ft)
11.000

Nom. Capacitance Cond. to Other Conductor & Shield

Capacitance (pF/ft)
20.900

Nominal Velocity of Propagation

VP (%)
78.000

Nom. Conductor DC Resistance

DCR @ 20°C (Ohm/1000 ft)
14.700

Nominal Outer Shield DC Resistance

DCR @ 20°C (Ohm/1000 ft)
2.800

Nom. Attenuation

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Attenuation (dB/100 ft.)
	1.000			0.500

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

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