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1-800-Belden1



General Description:

22 AWG solid bare copper conductors, FRFPE insulation, Beldfoil® (100% coverage) plus a tinned copper braid shield (65% coverage), LSZH jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (mm)
1	22	Solid	BC - Bare Copper	0.6604

Total Number of Conductors: 2

Insulation

Insulation Material:

Insulation Material
FRFPE - Flame Retardant Foam Polyethylene

Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	65

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
LSZH- Low Smoke Zero Halogen

Overall Cable

Overall Nominal Diameter: 10.922 mm

Pair

Pair Color Code Chart:

Number	Color
1	Red & Green

Pair Lay Length & Direction:

Lay Length (mm)
69.85

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +75°C

Bulk Cable Weight: 129.473 Kg/Km

Max. Recommended Pulling Tension: 222.410 N

Min. Bend Radius/Minor Axis: 109.220 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMG-LS, PLTC

3079T Multi-Conductor - DataBus® PROFIBUS Cable

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 RoHS Compliance Date (mm/dd/yyyy):	09/16/2014
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
Other Specification:	ABS Type Approval 14-HS 1233170

Flame Test

UL Flame Test:	UL1685 FT4 Loading, Limited Smoke
C(UL) Flame Test:	FT4
IEC Flame Test:	60332-3-22 (Category A)
IEEE Flame Test:	1202

Suitability

Sunlight Resistance:	Yes
Oil Resistance:	No

Plenum/Non-Plenum

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

Nom. Inductance:

Inductance (µH/m)

0.925242

Nom. Mutual Capacitance:

Capacitance (pF/m)

27.8885

Nominal Velocity of Propagation:

VP (%)

78

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

52.496

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 12.796 Ohm/km

Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100m)

0.200	0.886
4.000	2.198
16.000	4.495

Max. Attenuation:

Freq. (MHz) Attenuation (dB/100 m)

0.200	1.100
4.000	2.650
16.000	5.400

3079T Multi-Conductor - DataBus® PROFIBUS Cable

Max. Operating Voltage - UL:

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

Max. Recommended Current:

Description	Current
Per Conductor	2.3 Amps

Other Electrical Characteristic 1: Capacitance Unbalance @ 1 kHz: Less than 1000 pF/km

Other Electrical Characteristic 2: Input Impedance/Unfitted Impedance 3 - 20 MHZ, 150 +/-15 Ohms

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
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