

3079E Multi-Conductor - DataBus® ISA/SP-50 PROFIBUS Cable

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Description

22 AWG stranded (7x30) bare copper conductors, FRFPE insulation, Beldfoil® shield (100% coverage) plus a tinned copper braid shield (65% coverage), PVC jacket.

Physical Characteristics (Overall):

Conductor:

AWG

# Pairs	AWG	Stranding	Conductor Material
1.000	22	7x30	BC - Bare Copper

Insulation:

Insulation Material

Ins 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
PVC - Polyvinyl Chloride

Overall Cabling:

Overall Nominal Diameter: .315 in.

Pair:

Pair Color Code Chart

Number	Color
1	Red & Green

Pair Lay Length & Direction

Lay Length (in.)
2.750

Mechanical Characteristics (Overall):

Operating Temperature Range	-30°C To +75°C
UL Temperature Rating	75°C
Bulk Cable Weight:	45 lbs/1000 ft.
Max. Recommended Pulling Tension:	50 lbs.
Min. Bend Radius (Install)/Minor Axis:	3.200 in.

Applicable Specifications and Agency Compliance (Overall):

Applicable Standards:

NEC/(UL) Specification	PLTC, CMG
CEC/C(UL) Specification	CMG

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EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy)	01/01/2004

Flame Test:

UL Flame Test	UL1685 FT4 Loading
CSA Flame Test	FT4

Plenum/Non-Plenum:

Plenum (Y/N)	N
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Electrical Characteristics (Overall):

Fitted Impedance

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Impedance (Ohm)
		3.000	20.000	150

Nom. Inductance

Inductance (µH/ft)
0.267

Nom. Mutual Capacitance

Capacitance (pF/ft)
8.500

Nominal Velocity of Propagation

VP (%)
78

Nom. Conductor DC Resistance

DCR @ 20°C (Ohm/1000 ft)
16.000

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C:3.900 Ohm/1000 ft

Nom. Attenuation

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Attenuation (dB/100 ft.)
	0.200			0.340
	4.000			0.810
	16.000			1.640

Max. Attenuation

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Attenuation (dB/100 m)
	0.200			1.120
	4.000			2.660
	16.000			5.400

Max. Operating Voltage - UL

Voltage	Description
300V	CMG

Max. Recommended Current

Description	Current
Per Conductor	2.3 Amps

Other Electrical Characteristic 1

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

PUT UPS AND COLORS:

Item #	Putup	Ship Weight	Jacket Color	Notes	Item Desc
3079E B021000	1,000 FT	44.000 LB	PURPLE	C	2 #22 FRFPE/FRPE SH PVC PUR
3079E B021640	1,640 FT	73.800 LB	PURPLE	C	2 #22 FRFPE/FRPE SH PVC PUR
3079E B023280	3,280 FT	144.320 LB	PURPLE	C	2 #22 FRFPE/FRPE SH PVC PUR

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Notes:

C = CRATE REEL PUT-UP.

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