

## 3079E Multi-Conductor - DataBus® PROFIBUS Cable



For more Information  
please call

1-800-Belden1



### 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	22	7x30	BC - Bare Copper

#### 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
PVC - Polyvinyl Chloride

#### Overall Cabling

Overall Nominal Diameter: 0.315 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 & Environmental Programs

CEC/C(UL) Specification: CMG

## 3079E Multi-Conductor - DataBus® PROFIBUS Cable

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):	01/01/2004
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:	=xxx

### Flame Test

UL Flame Test:	UL1685 FT4 Loading
CSA Flame Test:	FT4

### Plenum/Non-Plenum

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

### Fitted Impedance:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Impedance (Ohm)
		3	20	150

### Nom. Inductance:

Inductance (µH/ft)
.267

### Nom. Mutual Capacitance:

Capacitance (pF/ft)
8.5

### Nominal Velocity of Propagation:

VP (%)
78

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
16.0

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

### Max. Attenuation:

Freq. (MHz)	Attenuation (dB/100 m)
0.100	0.510
1.000	1.570
10.000	4.800

### 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	Color	Notes	Item Desc
3079E B021000	1,000 FT	44.000 LB	PURPLE	C	2 #22 FRFPE/FRPE SH PVC
3079E B021640	1,640 FT	73.800 LB	PURPLE	C	2 #22 FRFPE/FRPE SH PVC

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3079E B023280	3,280 FT	144.320 LB	PURPLE	C	2 #22 FRFPE/FRPE SH PVC
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**Notes:**

C = CRATE REEL PUT-UP.

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