

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



For more Information  
please call

1-800-Belden1



### General Description:

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

### Physical Characteristics (Overall)

#### Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (in.) |
|---------|-----|-----------|--------------------|------------|
| 1       | 22  | Solid     | BC - Bare Copper   | .026       |

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    |
|--------------------------|
| PVC - Polyvinyl Chloride |

#### Overall Cable

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: 60°C

Bulk Cable Weight: 52 lbs/1000 ft.

Max. Recommended Pulling Tension: 50 lbs.

Min. Bend Radius/Minor Axis: 3.200 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

|                                    |                             |
|------------------------------------|-----------------------------|
| NEC/(UL) Specification:            | CMG, PLTC                   |
| CEC/C(UL) Specification:           | CMG                         |
| AWM Specification:                 | UL Style 20201 (600 V 75°C) |
| EU Directive 2011/65/EU (ROHS II): | Yes                         |
| EU CE Mark:                        | Yes                         |
| EU Directive 2000/53/EC (ELV):     | Yes                         |
| EU Directive 2002/95/EC (RoHS):    | Yes                         |

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|                                       |            |
|---------------------------------------|------------|
| 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        |
| MIL Order #39 (China RoHS):           | Yes        |

### Flame Test

|                  |                    |
|------------------|--------------------|
| UL Flame Test:   | UL1685 FT4 Loading |
| CSA Flame Test:  | FT4                |
| IEEE Flame Test: | 1202               |

### Suitability

|                      |     |
|----------------------|-----|
| Sunlight Resistance: | Yes |
|----------------------|-----|

### Plenum/Non-Plenum

|               |    |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

## Electrical Characteristics (Overall)

### Nom. Inductance:

| Inductance (µH/ft) |
|--------------------|
| .282               |

### 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

### Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 0.200       | 0.270                    |
| 4.000       | 0.670                    |
| 16.000      | 1.370                    |

### Max. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 m) |
|-------------|------------------------|
| 0.200       | 1.100                  |
| 4.000       | 2.650                  |
| 16.000      | 5.400                  |

### Max. Operating Voltage - UL:

| Voltage                        |
|--------------------------------|
| 300 V RMS (NEC Type CMG)       |
| 600 V RMS (UL AWM Style 20201) |
| 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

## Notes (Overall)

Notes: Siemens Sinec L2 Cable. For CPE jacketed version order Part No. YR45047. For LS0H (FRNC) jacketed version, order Part No. YR44731.

## Put Ups and Colors:

| Item #        | Putup    | Ship Weight | Color  | Notes | Item Desc                  |
|---------------|----------|-------------|--------|-------|----------------------------|
| 3079A 0071000 | 1,000 FT | 56.000 LB   | VIOLET | C     | 1 PR #22 FRFPE FRPE SH PVC |
| 3079A 0072000 | 2,000 FT | 112.000 LB  | VIOLET | C     | 1 PR #22 FRFPE FRPE SH PVC |
| 3079A 0073600 | 3,600 FT | 201.600 LB  | VIOLET | C     | 1 PR #22 FRFPE FRPE SH PVC |
| 3079A 0075000 | 5,000 FT | 285.000 LB  | VIOLET |       | 1 PR #22 FRFPE FRPE SH PVC |
| 3079A 0601000 | 1,000 FT | 56.000 LB   | CHROME | C     | 1 PR #22 FRFPE FRPE SH PVC |

## ENGLISH MEASUREMENT VERSION

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

|               |          |            |        |   |                            |
|---------------|----------|------------|--------|---|----------------------------|
| 3079A 0602000 | 2,000 FT | 112.000 LB | CHROME | C | 1 PR #22 FRFPE FRPE SH PVC |
| 3079A 0603600 | 3,600 FT | 201.600 LB | CHROME | C | 1 PR #22 FRFPE FRPE SH PVC |

**Notes:**

C = CRATE REEL PUT-UP.

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#### Как с нами связаться

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