

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. (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 |
|--------------------------|
| PVC - Polyvinyl Chloride |

Overall Cable

Overall Nominal Diameter: 8.001 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: | -30°C To +75°C |
| UL Temperature Rating: | 60°C |
| Bulk Cable Weight: | 77.386 Kg/Km |
| Max. Recommended Pulling Tension: | 222.410 N |
| Min. Bend Radius/Minor Axis: | 81.280 mm |

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 |

METRIC MEASUREMENT VERSION

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

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/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 |

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 |

METRIC MEASUREMENT VERSION

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| | | | | | |
|---------------|----------|------------|--------|---|----------------------------|
| 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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