

3079A Paired - DataBus® ISA/SP-50 PROFIBUS Cable

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| | | <p style="text-align: center;">Metric Version For more information please call 1-800-Belden1</p> <p style="text-align: center;"><u>See Put-ups and Colors</u></p> |
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Description:

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

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

| | |
|----------------------------|------------------|
| Number of Pairs | 1 |
| Total Number of Conductors | 2 |
| AWG | 22 |
| Stranding | Solid |
| Conductor Diameter | 0.66 mm |
| Conductor Material | BC - Bare Copper |

INSULATION:

| | |
|---------------------|---|
| Insulation Material | FRFPE - Flame Retardant Foam Polyethylene |
| Lay Length | 6.985 cm |

Pair Color Code Chart :

| Number | Color |
|--------|-------------|
| 1 | Red & Green |

OUTER SHIELD:

| | |
|----------------------------------|------------|
| Outer Shield Material Trade Name | Beldfoil® |
| Outer Shield Type | Tape/Braid |

Outer Shield Material :

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

| | |
|-------------------------|-------|
| Outer Shield % Coverage | 100 % |
|-------------------------|-------|

OUTER JACKET:

| | |
|-----------------------|--------------------------|
| Outer Jacket Material | PVC - Polyvinyl Chloride |
|-----------------------|--------------------------|

OVERALL NOMINAL DIAMETER:

| | |
|--------------------------|----------|
| Overall Nominal Diameter | 8.001 mm |
|--------------------------|----------|

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MECHANICAL CHARACTERISTICS:

| | |
|----------------------------------|----------------|
| Operating Temperature Range | -30°C To +75°C |
| UL Temperature Rating | 75°C |
| Bulk Cable Weight | 66.969 Kg/Km |
| Max. Recommended Pulling Tension | 222.41 N |
| Min. Bend Radius (Install) | 88.9 mm |

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

| | |
|---------------------------------------|-----------------------------|
| NEC/(UL) Specification | PLTC, CMG |
| CEC/C(UL) Specification | CMG |
| AWM Specification | UL Style 20201 (600 V 75°C) |
| 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 |

ELECTRICAL CHARACTERISTICS:

Fitted Impedance :

| Description | Frequency (MHz) | Start Frequency (MHz) | Stop Frequency (MHz) | Fitted Impedance (Ohms) |
|-------------|-----------------|-----------------------|----------------------|-------------------------|
| | | 3 | 20 | 150 |

| | |
|--|-----------------|
| Nom. Inductance | 0.925 μ H/m |
| Nom. Mutual Capacitance @ 1 KHz | 27.888 pF/m |
| Nominal Velocity of Propagation | 78 % |
| Nom. Conductor DC Resistance @ 20 Deg. C | 52.496 Ohms/km |
| Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C | 12.796 Ohms/km |

Nom. Attenuation (dB/100 ft) :

| Description | Frequency (MHz) | Start Frequency (MHz) | Stop Frequency (MHz) | Nom. Attenuation (dB/100m) |
|-------------|-----------------|-----------------------|----------------------|----------------------------|
| | 0.2 | | | 0.886 |
| | 4 | | | 2.198 |
| | 16 | | | 4.495 |

Max. Attenuation (dB/100 m) :

| Description | Frequency (MHz) | Start Frequency (MHz) | Stop Frequency (MHz) | Max. Attenuation (dB/100 m) |
|-------------|-----------------|-----------------------|----------------------|-----------------------------|
| | 0.2 | | | 0.9 |
| | 4 | | | 2.2 |
| | 16 | | | 4.5 |

Max. Operating Voltage - UL :

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