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please call

1-800-Belden1



General Description:

22 AWG stranded (7x30) tinned copper conductors, Datalene® insulation, twisted pairs, overall Beldfoil® shield (100% coverage) plus a tinned copper braid (65% coverage), drain wire, UV resistant PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (mm) |
|---------|-----|-----------|--------------------|-----------|
| 2 | 22 | 7x30 | TC - Tinned Copper | 0.762 |

Total Number of Conductors: 4

Insulation

Insulation Material:

| Insulation Trade Name | Insulation Material |
|-----------------------|--|
| Datalene® | FHDPE - Foam High Density Polyethylene |

Outer Shield

Outer Shield Material:

| Layer # | Outer Shield Trade Name | Type | Outer Shield Material | Coverage (%) |
|---------|-------------------------|-------|------------------------------|--------------|
| 1 | Beldfoil® | Tape | Aluminum Foil-Polyester Tape | 100.000 |
| 2 | | Braid | TC - Tinned Copper | 65.000 |

Outer Shield Drain Wire AWG:

| AWG | Stranding | Drain Wire Conductor Material |
|-----|-----------|-------------------------------|
| 22 | 7x30 | TC - Tinned Copper |

Outer Jacket

Outer Jacket Material:

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

Overall Cable

Overall Cabling Color Code Chart:

| Number | Color |
|--------|---|
| 1 | White/Blue Stripe & Blue/White Stripe |
| 2 | White/Orange Stripe & Orange/White Stripe |

Overall Nominal Diameter: 8.890 mm

Pair

Pair Lay Length & Direction:

| Lay Length (mm) |
|-----------------|
| 95.250 |

Mechanical Characteristics (Overall)

| | |
|-----------------------------------|----------------|
| Operating Temperature Range: | -20°C To +60°C |
| Non-UL Temperature Rating: | 60°C |
| Bulk Cable Weight: | 108.639 Kg/Km |
| Max. Recommended Pulling Tension: | 355.856 N |
| Min. Bend Radius/Minor Axis: | 88.900 mm |

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|------------------------------------|----------|
| NEC/(UL) Specification: | CM, PLTC |
| CEC/(UL) Specification: | CM |
| EU Directive 2011/65/EU (ROHS II): | Yes |
| EU CE Mark: | Yes |

METRIC MEASUREMENT VERSION

3107A Multi-Conductor - EIA Industrial RS-485 PLTC/CM

| | |
|---------------------------------------|------------|
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2002/95/EC (RoHS): | Yes |
| EU RoHS Compliance Date (mm/dd/yyyy): | 10/01/2005 |
| 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 |

Flame Test

| | |
|-----------------|-------------------|
| UL Flame Test: | UL1685 UL Loading |
| CSA Flame Test: | FT1 |

Suitability

| | |
|----------------------|------------------|
| Sunlight Resistance: | Yes |
| Oil Resistance: | Yes - Oil Res II |

Plenum/Non-Plenum

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

Surface Printing (Overall)

| | |
|-------------------|--|
| Surface Printing: | BELDEN 3107A E34972 2PR22 SHIELDED (UL) CM OR PLTC SUN RES OR C(UL) CM --- FT1 |
|-------------------|--|

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

| |
|-----------------|
| Impedance (Ohm) |
| 120 |

Nom. Capacitance Conductor to Conductor:

| |
|--------------------|
| Capacitance (pF/m) |
| 36.091 |

Nom. Capacitance Cond. to Other Conductor & Shield:

| |
|--------------------|
| Capacitance (pF/m) |
| 68.5729 |

Nominal Velocity of Propagation:

| |
|--------|
| VP (%) |
| 78 |

Nom. Conductor DC Resistance:

| |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 48.2307 |

Nominal Outer Shield DC Resistance:

| |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 9.679 |

Nom. Attenuation:

| Description | Freq. (MHz) | Start Freq. (MHz) | Stop Freq. (MHz) | Attenuation (dB/100m) |
|-------------|-------------|-------------------|------------------|-----------------------|
| | 1 | | | 1.6405 |

Max. Operating Voltage - UL:

| |
|---------------------------|
| Voltage |
| 300 V RMS (NEC Type PLTC) |
| 300 V RMS (NEC Type CM) |

Max. Recommended Current:

| |
|-------------------------------|
| Current |
| 2.7 Amps per conductor @ 25°C |

| | |
|------------------------------------|--|
| Other Electrical Characteristic 1: | Input Impedance/Unfitted Impedance .5 - 10 MHz, 120 +/-12 Ohms |
|------------------------------------|--|

Notes (Overall)

Notes: Oil Resistance: Passes Oil Res II Per UL1277, Table 10.17. For CPE jacketed version order YR46792.

Put Ups and Colors:

METRIC MEASUREMENT VERSION

3107A Multi-Conductor - EIA Industrial RS-485 PLTC/CM

No put ups and colors are available for this product

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