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1-800-Belden1



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:

| # Conductors | # Pairs | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------------|---------|-----|-----------|--------------------|------------|
| 1 | 1 | 22 | 7x30 | TC - Tinned Copper | .030 |

Total Number of Conductors: 3

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 Shield Drain Wire Diameter: .030

Outer Jacket

Outer Jacket Material:

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

Overall Cable

Overall Cabling Color Code Chart:

| Number | Color |
|--------|---------------------|
| 1 | White/Orange Stripe |
| 2 | Orange/White Stripe |
| 3 | Blue/White Stripe |

Overall Nominal Diameter: 0.300 in.

Pair

Pair Lay Length & Direction:

| Lay Length (in.) |
|------------------|
| 3.000 |

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +60°C

Non-UL Temperature Rating: 60°C

Bulk Cable Weight: 48 lbs/1000 ft.

| | |
|-----------------------------------|---------|
| Max. Recommended Pulling Tension: | 65 lbs. |
| Min. Bend Radius/Minor Axis: | 3 in. |

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|---------------------------------------|------------|
| CEC/C(UL) Specification: | CM |
| 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): | 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 |

Plenum/Non-Plenum

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

Surface Printing (Overall)

Electrical Characteristics (Overall)

Nom. Inductance:

| |
|--------------------|
| Inductance (µH/ft) |
| .203 |

Nom. Capacitance Conductor to Conductor:

| |
|---------------------|
| Capacitance (pF/ft) |
| 11.0 |

Nom. Capacitance Cond. to Other Conductor & Shield:

| |
|---------------------|
| Capacitance (pF/ft) |
| 20.9 |

Nominal Velocity of Propagation:

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

Nom. Conductor DC Resistance:

| |
|--------------------------|
| DCR @ 20°C (Ohm/1000 ft) |
| 14.7 |

Nominal Outer Shield DC Resistance:

| |
|--------------------------|
| DCR @ 20°C (Ohm/1000 ft) |
| 2.8 |

Nom. Attenuation:

| Description | Freq. (MHz) | Start Freq. (MHz) | Stop Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|-------------|-------------------|------------------|--------------------------|
| | 1 | | | .5 |

Max. Operating Voltage - UL:

| |
|-----------|
| Voltage |
| 300 V RMS |

Max. Recommended Current:

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

3106A Multi-Conductor - EIA Industrial RS-485 PLTC/CM

Input/Unfitted Impedance:

| Description | Freq. (MHz) | Start Freq. (MHz) | Stop Freq. (MHz) | Impedance (Ohm) |
|-------------|-------------|-------------------|------------------|-----------------|
| | 1 | | | 120 |

Notes (Overall)

Notes: Oil Resistance: Passes Oil Res II Per UL1277, Table 10.17. For CPE jacketed version order YR46721.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|-------|-------|-------------------------|
| 3106A 0101000 | 1,000 FT | 47.000 LB | BLACK | C | #22 FS PR,1#22PVCBRDPVC |
| 3106A 010500 | 500 FT | 25.000 LB | BLACK | C | #22 FS PR,1#22PVCBRDPVC |
| 3106A 0105000 | 5,000 FT | 230.000 LB | BLACK | C N | #22 FS PR,1#22PVCBRDPVC |

Notes:

C = CRATE REEL PUT-UP.

N = FINAL PUT-UP LENGTH MAY VARY -0% TO +10% FROM LENGTH SHOWN.

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Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: ocean@oceanchips.ru

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А