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1-800-Belden1



General Description:

22 AWG stranded (7x30) TC conductors, polypropylene insulation, twisted pair, overall Beldfoil shield (100% coverage), 22 AWG stranded TC drain wire, PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 1 | 22 | 7x30 | TC - Tinned Copper |

Total Number of Conductors: 2

Insulation

Insulation Material:

| Insulation Material | Wall Thickness (in.) |
|---------------------|----------------------|
| PP - Polypropylene | .008 |

Outer Shield

Outer Shield Material:

| Outer Shield Trade Name | Type | Outer Shield Material | Coverage (%) |
|-------------------------|------|------------------------------|--------------|
| Beldfoil® | Tape | Aluminum Foil-Polyester Tape | 100 |

Outer Shield Drain Wire AWG:

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

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material | Nom. Wall Thickness (in.) |
|--------------------------|---------------------------|
| PVC - Polyvinyl Chloride | .020 |

Overall Cable

Overall Nominal Diameter: 0.135 in.

Pair

Pair Color Code Chart:

| Number | Color |
|--------|-------------|
| 1 | Black & Red |

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +75°C

UL Temperature Rating: 60°C

Bulk Cable Weight: 14 lbs/1000 ft.

Max. Recommended Pulling Tension: 27 lbs.

Min. Bend Radius/Minor Axis: 1.500 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR

CEC/C(UL) Specification: CMG

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

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: | UL1666 Vertical Shaft |
| CSA Flame Test: | FT4 |

Plenum/Non-Plenum

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

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

45

Nom. Inductance:

Inductance (µH/ft)

.17

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

35

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

67

Nominal Velocity of Propagation:

VP (%)

66

Nominal Delay:

Delay (ns/ft)

1.5

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

14.1

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

14.3

Max. Operating Voltage - UL:

Voltage

300 V RMS

Max. Recommended Current:

Current

2.9 Amps per conductor @ 25°C

Notes (Overall)

Notes: The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is inside foil shield. For cross-connect use with 1814R (et. al.) Snake Cables.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|-------------|-------|--------------------|
| 9451 N3UU1000 | 1,000 FT | 16.000 LB | GREEN, MIL | | 2 #22 PP FS PVC FR |
| 9451 N3U5000 | 5,000 FT | 70.000 LB | GREEN, MIL | C N | 2 #22 PP FS PVC FR |
| 9451 001U1000 | 1,000 FT | 16.000 LB | BROWN | | 2 #22 PP FS PVC FR |
| 9451 0015000 | 5,000 FT | 70.000 LB | BROWN | C N | 2 #22 PP FS PVC FR |
| 9451 002U1000 | 1,000 FT | 16.000 LB | RED | | 2 #22 PP FS PVC FR |
| 9451 0025000 | 5,000 FT | 75.000 LB | RED | C N | 2 #22 PP FS PVC FR |
| 9451 003U1000 | 1,000 FT | 16.000 LB | ORANGE | | 2 #22 PP FS PVC FR |
| 9451 0035000 | 5,000 FT | 75.000 LB | ORANGE | C N | 2 #22 PP FS PVC FR |
| 9451 004U1000 | 1,000 FT | 16.000 LB | YELLOW | | 2 #22 PP FS PVC FR |
| 9451 0045000 | 5,000 FT | 75.000 LB | YELLOW | C N | 2 #22 PP FS PVC FR |
| 9451 006U1000 | 1,000 FT | 16.000 LB | BLUE, LIGHT | | 2 #22 PP FS PVC FR |
| 9451 0065000 | 5,000 FT | 75.000 LB | BLUE, LIGHT | C N | 2 #22 PP FS PVC FR |
| 9451 007U1000 | 1,000 FT | 16.000 LB | VIOLET | | 2 #22 PP FS PVC FR |
| 9451 0075000 | 5,000 FT | 75.000 LB | VIOLET | C N | 2 #22 PP FS PVC FR |

9451 Multi-Conductor - Single-Pair Cables

| | | | | | |
|---------------|----------|-----------|-------|-----|--------------------|
| 9451 008T1000 | 1,000 FT | 16.000 LB | GRAY | | 2 #22 PP FS PVC FR |
| 9451 008U1000 | 1,000 FT | 16.000 LB | GRAY | | 2 #22 PP FS PVC FR |
| 9451 008U500 | 500 FT | 8.500 LB | GRAY | | 2 #22 PP FS PVC FR |
| 9451 008500 | 500 FT | 8.000 LB | GRAY | | 2 #22 PP FS PVC FR |
| 9451 0085000 | 5,000 FT | 75.000 LB | GRAY | C N | 2 #22 PP FS PVC FR |
| 9451 009U1000 | 1,000 FT | 16.000 LB | WHITE | | 2 #22 PP FS PVC FR |
| 9451 0095000 | 5,000 FT | 75.000 LB | WHITE | C N | 2 #22 PP FS PVC FR |
| 9451 010U1000 | 1,000 FT | 16.000 LB | BLACK | | 2 #22 PP FS PVC FR |
| 9451 0101000 | 1,000 FT | 16.000 LB | BLACK | | 2 #22 PP FS PVC FR |
| 9451 0105000 | 5,000 FT | 75.000 LB | BLACK | C N | 2 #22 PP FS PVC FR |

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