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1-800-Belden1



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 |

Insulation

Insulation Material:

| Insulation Material | Wall Thickness (mm) |
|---------------------|---------------------|
| PP - Polypropylene | 0.2032 |

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 (mm) |
|--------------------------|--------------------------|
| PVC - Polyvinyl Chloride | 0.508 |

Overall Cabling

Overall Nominal Diameter: 3.429 mm

Pair

Pair Color Code Chart:

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

Pair Lay Length & Direction:

| Lay Length (mm) | Twists/ft. (twist/m) |
|-----------------|----------------------|
| 44.449825 | 22.508 |

Mechanical Characteristics (Overall)

| | |
|--|----------------|
| Operating Temperature Range: | -20°C To +75°C |
| UL Temperature Rating: | 60°C |
| Bulk Cable Weight: | 20.835 Kg/Km |
| Max. Recommended Pulling Tension: | 120.101 N |
| Min. Bend Radius (Install)/Minor Axis: | 35.560 mm |

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|---------------------------------------|------------|
| NEC/(UL) Specification: | CMR |
| CEC/C(UL) Specification: | CMG |
| 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 |
| MII 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 ($\mu\text{H}/\text{m}$) |
| 0.55777 |

Nom. Capacitance Conductor to Conductor:

| |
|--------------------|
| Capacitance (pF/m) |
| 114.835 |

Nom. Capacitance Cond. to Other Conductor & Shield:

| |
|--------------------|
| Capacitance (pF/m) |
| 219.827 |

Nominal Velocity of Propagation:

| |
|--------|
| VP (%) |
| 66 |

Nominal Delay:

| |
|--------------|
| Delay (ns/m) |
| 4.9215 |

Nom. Conductor DC Resistance:

| |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 46.2621 |

Nominal Outer Shield DC Resistance:

| |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 46.9183 |

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.

Related Documents:

No related documents are available for this product

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|-------------|-------|--------------------|
| 9451 N3UU1000 | 305 MT | 7.258 KG | GREEN, MIL | | 2 #22 PP FS PVC FR |
| 9451 N3U5000 | 1,524 MT | 31.752 KG | GREEN, MIL | C N | 2 #22 PP FS PVC FR |
| 9451 001U1000 | 305 MT | 7.258 KG | BROWN | | 2 #22 PP FS PVC FR |
| 9451 0015000 | 1,524 MT | 31.752 KG | BROWN | C N | 2 #22 PP FS PVC FR |
| 9451 002U1000 | 305 MT | 7.258 KG | RED | | 2 #22 PP FS PVC FR |
| 9451 0025000 | 1,524 MT | 34.020 KG | RED | C N | 2 #22 PP FS PVC FR |
| 9451 003U1000 | 305 MT | 7.258 KG | ORANGE | | 2 #22 PP FS PVC FR |
| 9451 0035000 | 1,524 MT | 34.020 KG | ORANGE | C N | 2 #22 PP FS PVC FR |
| 9451 004U1000 | 305 MT | 7.258 KG | YELLOW | | 2 #22 PP FS PVC FR |
| 9451 0045000 | 1,524 MT | 34.020 KG | YELLOW | C N | 2 #22 PP FS PVC FR |
| 9451 006U1000 | 305 MT | 7.258 KG | BLUE, LIGHT | | 2 #22 PP FS PVC FR |
| 9451 0065000 | 1,524 MT | 34.020 KG | BLUE, LIGHT | C N | 2 #22 PP FS PVC FR |
| 9451 007U1000 | 305 MT | 7.258 KG | VIOLET | | 2 #22 PP FS PVC FR |
| 9451 0075000 | 1,524 MT | 34.020 KG | VIOLET | C N | 2 #22 PP FS PVC FR |
| 9451 008T1000 | 305 MT | 7.258 KG | GRAY | | 2 #22 PP FS PVC FR |
| 9451 008U1000 | 305 MT | 7.258 KG | GRAY | | 2 #22 PP FS PVC FR |
| 9451 008U500 | 152 MT | 3.856 KG | GRAY | | 2 #22 PP FS PVC FR |
| 9451 008500 | 152 MT | 3.629 KG | GRAY | | 2 #22 PP FS PVC FR |
| 9451 0085000 | 1,524 MT | 34.020 KG | GRAY | C N | 2 #22 PP FS PVC FR |
| 9451 009U1000 | 305 MT | 7.258 KG | WHITE | | 2 #22 PP FS PVC FR |
| 9451 0095000 | 1,524 MT | 34.020 KG | WHITE | C N | 2 #22 PP FS PVC FR |
| 9451 010U1000 | 305 MT | 7.258 KG | BLACK | | 2 #22 PP FS PVC FR |
| 9451 0105000 | 1,524 MT | 34.020 KG | 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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