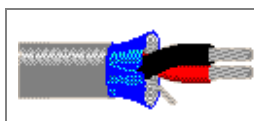


9451 Multi-Conductor - Single-Pair Cables



For more Information
please call

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 |
|---------|-----|-----------|--------------------|
| 1.000 | 22 | 7x30 | TC - Tinned Copper |

Insulation:

Insulation Material

| Insulation Material | Wall Thickness (in.) |
|---------------------|----------------------|
| PP - Polypropylene | 0.008 |

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 | 0.020 |

Overall Cabling:

Overall Nominal Diameter: 0.135 x 0.000 in.

Pair:

Pair Color Code Chart

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

Pair Lay Length & Direction

| Lay Length (in.) | Twists/ft. (twist/ft) |
|------------------|-----------------------|
| 1.750 | 6.860 |

Mechanical Characteristics (Overall):

| | |
|--|---------------------|
| Operating Temperature Range | -20°C To +75°C |
| UL Temperature Rating | 60°C |
| Bulk Cable Weight: | 13.600 lbs/1000 ft. |
| Max. Recommended Pulling Tension: | 27 lbs. |
| Min. Bend Radius (Install)/Minor Axis: | 1.400 in. |

Applicable Specifications and Agency Compliance (Overall):

Applicable Standards:

9451 Multi-Conductor - Single-Pair Cables

| | |
|--------------------------------------|-----------------------|
| NEC/(UL) Specification | CMR |
| CEC/C(UL) Specification | CMG |
| 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 | UL1666 Vertical Shaft |
| CSA Flame Test | FT4 |
| Plenum/Non-Plenum: | |
| Plenum (Y/N) | No |

Electrical Characteristics (Overall):

Nom. Characteristic Impedance

| |
|------------------------|
| Impedance (Ohm) |
| 45.000 |

Nom. Inductance

| |
|---------------------------|
| Inductance (µH/ft) |
| 0.170 |

Nom. Capacitance Conductor to Conductor

| |
|----------------------------|
| Capacitance (pF/ft) |
| 35.000 |

Nom. Capacitance Cond. to Other Conductor & Shield

| |
|----------------------------|
| Capacitance (pF/ft) |
| 67.000 |

Nominal Velocity of Propagation

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

Nominal Delay

| |
|----------------------|
| Delay (ns/ft) |
| 1.500 |

Nom. Conductor DC Resistance

| |
|---------------------------------|
| DCR @ 20°C (Ohm/1000 ft) |
| 14.100 |

Nominal Outer Shield DC Resistance

| |
|---------------------------------|
| DCR @ 20°C (Ohm/1000 ft) |
| 14.300 |

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 0015000 | 5,000 FT | 70.000 LB | BROWN | C N | 2 #22 PP FS PVC FR BRN |

9451 Multi-Conductor - Single-Pair Cables

| | | | | | |
|---------------|----------|-----------|-------------|-----|--------------------------|
| 9451 001U1000 | 1,000 FT | 16.000 LB | BROWN | | 2 #22 PP FS PVC FR BRN |
| 9451 0025000 | 5,000 FT | 75.000 LB | RED | C N | 2 #22 PP FS PVC FR RED |
| 9451 002U1000 | 1,000 FT | 16.000 LB | RED | | 2 #22 PP FS PVC FR RED |
| 9451 0035000 | 5,000 FT | 75.000 LB | ORANGE | C N | 2 #22 PP FS PVC FR ORG |
| 9451 003U1000 | 1,000 FT | 16.000 LB | ORANGE | | 2 #22 PP FS PVC FR ORG |
| 9451 0045000 | 5,000 FT | 75.000 LB | YELLOW | C N | 2 #22 PP FS PVC FR YEL |
| 9451 004U1000 | 1,000 FT | 16.000 LB | YELLOW | | 2 #22 PP FS PVC FR YEL |
| 9451 0065000 | 5,000 FT | 75.000 LB | BLUE, LIGHT | C N | 2 #22 PP FS PVC FR BLULT |
| 9451 006U1000 | 1,000 FT | 16.000 LB | BLUE, LIGHT | | 2 #22 PP FS PVC FR BLULT |
| 9451 0075000 | 5,000 FT | 75.000 LB | VIOLET | C N | 2 #22 PP FS PVC FR VIO |
| 9451 007U1000 | 1,000 FT | 16.000 LB | VIOLET | | 2 #22 PP FS PVC FR VIO |
| 9451 008500 | 500 FT | 8.000 LB | GRAY | | 2 #22 PP FS PVC FR GRY |
| 9451 0085000 | 5,000 FT | 75.000 LB | GRAY | C N | 2 #22 PP FS PVC FR GRY |
| 9451 008T1000 | 1,000 FT | 16.000 LB | GRAY | | 2 #22 PP FS PVC FR GRY |
| 9451 008U1000 | 1,000 FT | 16.000 LB | GRAY | | 2 #22 PP FS PVC FR GRY |
| 9451 008U500 | 500 FT | 8.500 LB | GRAY | | 2 #22 PP FS PVC FR GRY |
| 9451 0095000 | 5,000 FT | 75.000 LB | WHITE | C N | 2 #22 PP FS PVC FR WHT |
| 9451 009U1000 | 1,000 FT | 16.000 LB | WHITE | | 2 #22 PP FS PVC FR WHT |
| 9451 0105000 | 5,000 FT | 75.000 LB | BLACK | C N | 2 #22 PP FS PVC FR BLK |
| 9451 010U1000 | 1,000 FT | 16.000 LB | BLACK | | 2 #22 PP FS PVC FR BLK |
| 9451 N3U5000 | 5,000 FT | 70.000 LB | GREEN, MIL | C N | 2 #22 PP FS PVC FR GRNML |
| 9451 N3UU1000 | 1,000 FT | 16.000 LB | GREEN, MIL | | 2 #22 PP FS PVC FR GRNML |

Notes:

C = CRATE REEL PUT-UP.

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

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