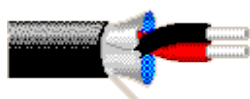


8450 Multi-Conductor - Single-Pair Cable



For more Information
please call

1-800-Belden1



General Description:

22 AWG solid tinned copper conductors, polypropylene insulation, twisted pair, overall Beldfoil shield (100% coverage), 22 AWG solid TC drain wire, PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

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

Total Number of Conductors: 2

Insulation

Insulation Material:

| Insulation Material | Wall Thickness (mm) |
|---------------------|---------------------|
| PP - Polypropylene | 0.1778 |

Outer Shield

Outer Shield Material:

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

Outer Shield Drain Wire AWG:

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

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material | Nom. Wall Thickness (mm) |
|--------------------------|--------------------------|
| PVC - Polyvinyl Chloride | 0.4572 |

Overall Cable

Overall Nominal Diameter: 2.997 mm

Pair

Pair Color Code Chart:

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

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +105°C

UL Temperature Rating: 75°C

Bulk Cable Weight: 17.858 Kg/Km

Max. Recommended Pulling Tension: 164.583 N

Min. Bend Radius/Minor Axis: 31.750 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CM

| | |
|---------------------------------------|------------|
| CEC/C(UL) Specification: | CM |
| 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 |
| MII Order #39 (China RoHS): | Yes |

Flame Test

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

Plenum/Non-Plenum

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

Electrical Characteristics (Overall)**Nom. Characteristic Impedance:**

Impedance (Ohm)

40

Nom. Inductance:Inductance ($\mu\text{H}/\text{m}$)

0.26248

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

131.24

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)

249.356

Nominal Velocity of Propagation:

VP (%)

66

Nominal Delay:

Delay (ns/m)

4.9215

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

52.8241

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

41.5047

Max. Operating Voltage - UL:

Voltage

300 V RMS

Max. Recommended Current:

Current

2.9 Amps per conductor @ 25°C

Notes (Overall)

Notes: Belden's® Miniature Type Broadcast Audio and Instrumentation Cables occupy 1/2 to 2/3 less space than standard cables.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|-------|-------|----------------------|
| 8450 0081000 | 1,000 FT | 13.000 LB | GRAY | | 2 #22 PP SHLD PVC FR |
| 8450 010U1000 | 1,000 FT | 14.000 LB | BLACK | | 2 #22 PP SHLD PVC FR |
| 8450 010U500 | 500 FT | 7.500 LB | BLACK | | 2 #22 PP SHLD PVC FR |
| 8450 0101000 | 1,000 FT | 13.000 LB | BLACK | | 2 #22 PP SHLD PVC FR |

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