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1-800-Belden1



General Description:

22 AWG stranded (7x30) TC conductors, twisted pair, FEP insulation, overall Beldfoil shield (100% coverage), 22 AWG stranded TC drain wire, Flamarrest® 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.) |
|--------------------------------------|----------------------|
| FEP - Fluorinated Ethylene Propylene | .007 |

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 Trade Name | Outer Jacket Material |
|-------------------------|---------------------------------------|
| Flamarrest® | LS PVC - Low Smoke Polyvinyl Chloride |

Overall Cable

Overall Nominal Diameter: 0.127 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: | 1.250 in. |

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|---------------------------------------|------------|
| NEC/(UL) Specification: | CMP |
| CEC/C(UL) Specification: | CMP |
| 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): | 04/01/2005 |
| EU Directive 2002/96/EC (WEEE): | Yes |

9451P Multi-Conductor - Single-Pair Cable

| | |
|-----------------------------------|-----|
| 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: | NFPA 262 |
| CSA Flame Test: | FT6 |

Plenum/Non-Plenum

| | |
|--------------------|------|
| Plenum (Y/N): | Yes |
| Non-Plenum Number: | 9451 |

Electrical Characteristics (Overall)

Nom. Inductance:

Inductance (µH/ft)

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

Nominal Velocity of Propagation:

VP (%)

Nominal Delay:

Delay (ns/ft)

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

Max. Operating Voltage - UL:

Voltage

Max. Recommended Current:

Current

Notes (Overall)

Notes: The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is inside foil shield.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|----------------|----------|-------------|-------------|-------|-------------------------|
| 9451P N3UU1000 | 1,000 FT | 16.000 LB | GREEN, MIL | | FSPR #22 FEP PLENUM PVC |
| 9451P N3U5000 | 5,000 FT | 75.000 LB | GREEN, MIL | C | FSPR #22 FEP PLENUM PVC |
| 9451P 001U1000 | 1,000 FT | 16.000 LB | BROWN | | FSPR #22 FEP PLENUM PVC |
| 9451P 0015000 | 5,000 FT | 75.000 LB | BROWN | C | FSPR #22 FEP PLENUM PVC |
| 9451P 002U1000 | 1,000 FT | 16.000 LB | RED | | FSPR #22 FEP PLENUM PVC |
| 9451P 0025000 | 5,000 FT | 75.000 LB | RED | C | FSPR #22 FEP PLENUM PVC |
| 9451P 003U1000 | 1,000 FT | 16.000 LB | ORANGE | | FSPR #22 FEP PLENUM PVC |
| 9451P 0035000 | 5,000 FT | 75.000 LB | ORANGE | C | FSPR #22 FEP PLENUM PVC |
| 9451P 004U1000 | 1,000 FT | 16.000 LB | YELLOW | | FSPR #22 FEP PLENUM PVC |
| 9451P 0045000 | 5,000 FT | 75.000 LB | YELLOW | C | FSPR #22 FEP PLENUM PVC |
| 9451P 006U1000 | 1,000 FT | 16.000 LB | BLUE, LIGHT | | FSPR #22 FEP PLENUM PVC |
| 9451P 0065000 | 5,000 FT | 75.000 LB | YELLOW | C | FSPR #22 FEP PLENUM PVC |
| 9451P 007U1000 | 1,000 FT | 16.000 LB | VIOLET | | FSPR #22 FEP PLENUM PVC |
| 9451P 0075000 | 5,000 FT | 75.000 LB | VIOLET | C | FSPR #22 FEP PLENUM PVC |
| 9451P 008U1000 | 1,000 FT | 16.000 LB | GRAY | | FSPR #22 FEP PLENUM PVC |
| 9451P 0085000 | 5,000 FT | 75.000 LB | GRAY | C | FSPR #22 FEP PLENUM PVC |
| 9451P 009U1000 | 1,000 FT | 16.000 LB | WHITE | | FSPR #22 FEP PLENUM PVC |

9451P Multi-Conductor - Single-Pair Cable

| | | | | | |
|----------------|----------|-----------|-------|---|-------------------------|
| 9451P 0095000 | 5,000 FT | 75.000 LB | WHITE | C | FSPR #22 FEP PLENUM PVC |
| 9451P 010U1000 | 1,000 FT | 16.000 LB | BLACK | | FSPR #22 FEP PLENUM PVC |
| 9451P 0101000 | 1,000 FT | 15.000 LB | BLACK | | FSPR #22 FEP PLENUM PVC |
| 9451P 0105000 | 5,000 FT | 75.000 LB | BLACK | C | FSPR #22 FEP PLENUM PVC |

Notes:

C = CRATE REEL PUT-UP.

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