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1-800-Belden1



General Description:

22 AWG stranded (7x30) tinned copper conductor, polypropylene insulation, twisted pairs individually shielded with Beldfoil® (100% coverage), overall PVC jacket and 22 AWG stranded tinned copper drain wire.

Physical Characteristics (Overall)

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (mm) |
|---------|-----|-----------|--------------------|-----------|
| 6 | 22 | 7x30 | TC - Tinned Copper | 0.762 |

Total Number of Conductors: 12

Insulation

Insulation Material:

| Insulation Material | Wall Thickness (mm) |
|---------------------|---------------------|
| PP - Polypropylene | 0.279 |

Inner Shield

Inner Shield Material:

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

Inner Shield Drain Wire AWG:

| AWG |
|-----|
| 22 |

Inner Shield Drain Wire Stranding: Stranded

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

Outer Shield

Outer Shield Material:

| Outer Shield Material |
|-----------------------|
| Unshielded |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material | Nom. Wall Thickness (mm) |
|--------------------------|--------------------------|
| PVC - Polyvinyl Chloride | 0.864 |

Overall Cable

Overall Nominal Diameter: 8.941 mm

Pair

Pair Color Code Chart:

| Number | Color |
|--------|----------------|
| 1 | Black & Red |
| 2 | Black & White |
| 3 | Black & Green |
| 4 | Black & Blue |
| 5 | Black & Yellow |
| 6 | Black & Brown |

Pair Lay Length & Direction:

| Lay Length (mm) | Twists (twist/m) | Direction |
|-----------------|------------------|-----------|
| 44.450 | 22.639 | Left Hand |

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +80°C

UL Temperature Rating: 80°C (UL AWM Style 2919)

Bulk Cable Weight: 104.174 Kg/Km

| | |
|-----------------------------------|-----------|
| Max. Recommended Pulling Tension: | 698.367 N |
| Min. Bend Radius/Minor Axis: | 95.250 mm |

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|---------------------------------------|---------------------------|
| NEC/(UL) Specification: | CM |
| NEC Articles: | 800 |
| CEC/C(UL) Specification: | CM |
| AWM Specification: | UL Style 2919 (30 V 80°C) |
| 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: | UL1685 UL Loading |
| CSA Flame Test: | FT1 |

Suitability

| | |
|-----------------------|-----|
| Suitability - Indoor: | Yes |
|-----------------------|-----|

Plenum/Non-Plenum

| | |
|--------------------|---------------------|
| Plenum (Y/N): | No |
| Non-Plenum Number: | 88778, 87778, 82778 |

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
50

Nom. Inductance:

Inductance (µH/m)
0.59058

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
98.43

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)
180.455

Nominal Velocity of Propagation:

VP (%)
66

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
49.215

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 34.779 Ohm/km

Max. Operating Voltage - UL:

| Voltage | Description |
|----------|-------------|
| 300V RMS | UL type CM |
| 30V RMS | UL AWM 2919 |

Max. Recommended Current:

| Description | Current |
|----------------------|-------------------------------------|
| 10C Temperature Rise | 2 Amps per conductor @ 25°C ambient |

Put Ups and Colors:

METRIC MEASUREMENT VERSION

8778 Multi-Conductor - CM Rated Cable

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|--------------|----------|-------------|--------|-------|--------------------|
| 8778 060100 | 100 FT | 7.900 LB | CHROME | | 6 FS PR #22 PP PVC |
| 8778 0601000 | 1,000 FT | 78.000 LB | CHROME | C | 6 FS PR #22 PP PVC |
| 8778 060250 | 250 FT | 19.500 LB | CHROME | C | 6 FS PR #22 PP PVC |
| 8778 060500 | 500 FT | 40.000 LB | CHROME | C | 6 FS PR #22 PP PVC |
| 8778 0605000 | 5,000 FT | 415.000 LB | CHROME | | 6 FS PR #22 PP PVC |

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 4 Revision Date: 08-06-2013

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