



Product: [88778](#)



Audio, Control & Instrument, #22-6pr, FEP, Individ. Foil, FEP Jkt, CMP

Product Description

Audio, Control & Instrument Cable, 22 AWG stranded (7x30) tinned copper conductor, FEP insulation, twisted pairs individually shielded with Beldfoil® (100% coverage), overall jacket per table below, 22 AWG stranded tinned copper drain wire.

Technical Specifications

Product Overview

| | |
|------------------------|---|
| Suitable Applications: | extreme high/low temperature environments; chemical resistant; outdoor and burial applications; low voltage analog signals (4-20ma, 0-10v, ...); low voltage digital control (24v, ...); line level audio; voice communications; panel wiring |
|------------------------|---|

Construction Details

Conductor

| Element | No. of Elements | Size | Stranding | Material |
|---------|-----------------|--------|-----------|--------------------|
| Pair(s) | 6 | 22 AWG | 7x30 | TC - Tinned Copper |

Insulation

| Element | Material | Nom. Thickness | Nom. Insulation Diameter | Color Code |
|---------|--------------------------------------|--------------------|--------------------------|--|
| Pair(s) | FEP - Fluorinated Ethylene Propylene | 0.010 in (0.25 mm) | 0.049 in (1.2 mm) | Black & Red, Black & White, Black & Green, Black & Blue, Black & Yellow, Black & Brown |

Inner Shield

| Element | Shield Type | Material | Coverage | Drainwire Type | Notes |
|---------|-------------|-------------------------|----------|-------------------|-----------|
| Pair(s) | Tape | Bi-Laminate (Alum+Poly) | 100% | 22 AWG (19x34) TC | each pair |

Outer Jacket

| Material | Nom. Thickness | Nom. Diameter |
|--------------------------------------|--------------------|--------------------|
| FEP - Fluorinated Ethylene Propylene | 0.020 in (0.51 mm) | 0.321 in (8.15 mm) |

| | |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.321 in (8.15 mm) |
|-----------------------------------|--------------------|

Electrical Characteristics

Electricals

| Element | Nom. Conductor DCR | Max. Conductor DCR | Nom. Inner Shield DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Nom. Characteristic Impedence | Nom. Velocity of Prop. | Max. Current |
|---------|--------------------|----------------------------|---------------------------------|-------------------------------|---|-------------------------------|------------------------|---------------------------------|
| Pair(s) | 18.2 Ohm/1000ft | 160 Ohm/km (49 Ohm/1000ft) | 11.54 Ohm/1000ft (37.86 Ohm/km) | 31 pF/ft (100 pF/m) | 67 pF/ft (220 pF/m) | 50 Ohm | 69% | 1.96 Amps per Conductor at 25°C |

Voltage

| UL Voltage Rating |
|-------------------|
| 300 V (CMG) |

Mechanical Characteristics

Temperature

| UL Temperature | Operating |
|----------------|-----------------|
| 150°C | -70°C to +200°C |

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 3.1 in (79 mm) | 3.1 in (79 mm) |

| | |
|--------------------|-------------------|
| Max. Pull Tension: | 128 lbs (58.1 kg) |
| Bulk Cable Weight: | 70 lbs/1000ft |

Standards and Compliance

| | |
|----------------------------------|---|
| Environmental Suitability: | Indoor, Sunlight Resistance, UV Resistance, Oil Resistance |
| Sustainability: | CA Prop 65 |
| Flammability / Reaction to Fire: | NFPA 262 (UL910), FT6, IEC 60332-1-2 |
| CPR Compliance: | CPR Euroclass: Eca |
| NEC / UL Compliance: | Article 800, CMP |
| CEC / C(UL) Compliance: | CMP |
| European Directive Compliance: | EU CE Mark, REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| UK Regulation Compliance: | UKCA Mark |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |
| Non-Plenum Number: | 8778 |

Product Notes

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| Notes: | Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc. |
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History

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| Update and Revision: | Revision Number: 0.562 Revision Date: 12-22-2023 |
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Part Numbers

Variants

| Item # | Color | UPC | Footnote |
|---------------|-------|--------------|----------|
| 88778 002100 | Red | 612825217466 | C |
| 88778 0021000 | Red | 612825217473 | C |
| 88778 002500 | Red | 612825217480 | C |

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