



Product: [88741](#)

Audio/Control/Instrumentation, (2 pr) 22 AWG (7x30) TC, FEP/FEP, CMP

[Request Sample](#)

Product Description

Two 22 AWG pairs stranded (7x30) tinned copper conductors, twisted pairs, fluorinated ethylene propylene (FEP) insulation, fluorinated ethylene propylene (FEP) jacket.

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 |
|------------------------|---|

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | No. of Pairs |
|-----|-----------|--------------------|--------------|
| 22 | 7x30 | TC - Tinned Copper | 2 |

| | |
|------------------------|---|
| Conductor Count: | 4 |
| Total Number of Pairs: | 2 |

Insulation

| Material | Nominal Wall Thickness |
|--------------------------------------|------------------------|
| FEP - Fluorinated Ethylene Propylene | 0.007 in |

Color Chart

| Number | Color |
|--------|---------------|
| 1 | Black & Red |
| 2 | Black & White |

Outer Shield

| Material |
|-----------|
| No Shield |

Outer Jacket

| Material | Nominal Diameter | Nominal Wall Thickness |
|--------------------------------------|------------------|------------------------|
| FEP - Fluorinated Ethylene Propylene | 0.169 in | 0.009 in |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Conductor Loop DCR |
|-----------------------|----------------------------|
| 16 Ohm/1000ft | 32 Ohm/1000ft |

Capacitance

| Nom. Capacitance Conductor to Conductor |
|---|
| 17 pF/ft |

Inductance

| Nominal Inductance |
|--------------------|
|--------------------|

0.15 µH/ft

Impedance

Nominal Characteristic Impedance

88 Ohm

Current

Max. Recommended Current [A]

3.3 Amps per Conductor at 25°C (10°C Temperature Rise)

Voltage

UL Voltage Rating

300 V RMS

Temperature Range

Operating Temperature Range: -70°C To +200°C

Mechanical Characteristics

Bulk Cable Weight: 16 lbs/1000ft

Max. Pull Tension: 18 lbs

Min. Bend Radius/Minor Axis: 1.75 in

Standards

NEC Articles: Article 800

NEC/(UL) Compliance: CMP

CEC/C(UL) Compliance: CMP

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2003/11/EC (BFR): Yes

EU Directive 2011/65/EU (RoHS 2): Yes

EU Directive 2012/19/EU (WEEE): Yes

EU Directive 2015/863/EU (RoHS 2 amendment): Yes

EU Directive Compliance: EU Directive 2003/11/EC (BFR)

EU CE Mark: Yes

MII Order #39 (China RoHS): Yes

Flammability, LSOH, Toxicity Testing

UL Flammability: NFPA 262

CSA Flammability: FT6

UL voltage rating: 300 V RMS

Plenum/Non-Plenum

Plenum (Y/N): Yes

Related Part Numbers

Non-Plenum Number: 8741

History

Update and Revision: Revision Number: 0.196 Revision Date: 05-31-2024

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