



**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
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### 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

Material
No Shield

#### Outer Jacket Material

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
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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 Temp 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 II): Yes

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

EU Directive 2015/863/EU: Yes

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

EU CE Mark: Yes

EU RoHS Compliance Date (yyyy-mm-dd): 2005-04-01

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

#### Part Number

Non-Plenum Number: 8741

#### History

Update and Revision: Revision Number: 0.174 Revision Date: 06-24-2020

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