



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
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
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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, LS0H, Toxicity Testing

UL Flammability:	NFPA 262
CSA Flammability:	FT6
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	Yes
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Related Part Numbers

Non-Plenum Number:	8741
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History

Update and Revision:	Revision Number: 0.195 Revision Date: 03-27-2024
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