



**Product:** [82742](#)

Electronic, 3 Pr #22 Str TC, FEP Ins, PVC Jkt, CMP

[Request Sample](#)

## Product Description

High Temperature Electronic, 3 Pair 22AWG (7x30) Tinned Copper, FEP Insulation, PVC Outer Jacket, CMP

## Technical Specifications

### Product Overview

Suitable Applications:	indoor plenum 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	3

Conductor Count:	6
Total Number of Pairs:	3

#### Insulation

Material	Nominal Wall Thickness
FEP - Fluorinated Ethylene Propylene	0.0065 in

#### Color Chart

Number	Color
1	Black & Red
2	Black & White
3	Black & Green

#### Outer Shield

Material
No Shield

#### Outer Jacket

Material	Material Trade Name	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	Flamarrest®	0.191 in	0.014 in

### Electrical Characteristics

#### Conductor DCR

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

#### Capacitance

Nom. Capacitance Conductor to Conductor
21 pF/ft

#### Inductance

Nominal Inductance
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0.15  $\mu$ H/ft

#### Impedance

##### Nominal Characteristic Impedance

80 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: 0°C To +60°C

#### Mechanical Characteristics

Bulk Cable Weight: 23 lbs/1000ft

Max. Pull Tension: 47 lbs

Min. Bend Radius/Minor Axis: 2 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 2003/96/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: 8742

#### Variants

Item #	Color	Put-Up Type	Length	UPC
82742 8771000	Natural	Reel	1,000 ft	612825197683

Footnote: C - CRATE REEL PUT-UP.

#### History

Update and Revision: Revision Number: 0.386 Revision Date: 12-22-2023

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