Product: 82743

Electronic, 6 Pr #22 Str TC, FEP Ins, PVC Jkt, CMP

Request Sample

Product Description

High Temperature Electronic, 6 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

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
22	7x30	TC - Tinned Copper	6

Conductor Count:	12
Total Number of Pairs:	6

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
4	Black & Blue
5	Black & Yellow
6	Black & Brown

Outer Shield

Material
No Shield

Outer Jacket

Material	Material Trade Name	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	Flamarrest®	0.238 in	0.0145 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
16 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor
21 pF/ft

Inductance

Nominal Inductance
0.15 µH/ft

Impedance

Nominal Characteristic Impedance
80 Ohm

Current

Max. Recommended Current [A]
3.3 Amps per Conductor at 25ºC (10°C Temperature Rise)

Voltage

UL Voltage Rating
300 V RMS

Temperature Range

Operating Temperature Range:	0°C To +75°C

Mechanical Characteristics

Bulk Cable Weight:	42 lbs/1000ft
Max. Pull Tension:	109 lbs
Min. Bend Radius/Minor Axis:	2.5 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, LS0H, 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:	8743

Variants

Item #	Color	Put-Up Type	Length	UPC
82743 8771000	Natural	Reel	1,000 ft	612825197690

Footnote:	C - CRATE REEL PUT-UP.

History

Update and Revision:	Revision Number: 0.385 Revision Date: 02-03-2025

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