



Product: [87760](#)

Electronic, 2 C #18 Str TC, FEP Ins, OS, PVDF Jkt, CMP

[Request Sample](#)

Product Description

High Temperature Electronic, 2 Conductor 18AWG (19x30) Tinned Copper, FEP Insulation, Overall Beldfoil® Shield, PVDF Outer Jacket, CMP

Technical Specifications

Product Overview

Suitable Applications:	extreme high 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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Construction Details

Conductor

Element	Number of Element	Size	Stranding	Material
Pair(s)	1	18 AWG	19x30	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	FEP - Fluorinated Ethylene Propylene	0.007 in (0.18 mm)	0.057 in (1.4 mm)	Black, Red

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	20 AWG (7x28) TC

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVDF - Polyvinylidene Fluoride	0.014 in (0.36 mm)	0.146 in (3.71 mm)

Overall Cable Diameter (Nominal):	0.146 in (3.71 mm)
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Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedance	Nom. Velocity of Prop.	Max. Current
Pair(s)	7.06 Ohm/1000ft	51 pF/ft (170 pF/m)	97 pF/ft (320 pF/m)	29 Ohm	69%	17 Amps per Conductor at 30°C

Voltage

UL Voltage Rating
300 V (CMP)

Mechanical Characteristics

Temperature

UL Temperature	Operating
150°C	-20°C to +150°C

Bend Radius

Stationary Min.	Installation Min.

1.5 in (38 mm) | 1.5 in (38 mm)

Max. Pull Tension: 62 lbs (28 kg)

Bulk Cable Weight: 20 lbs/1000ft

Standards and Compliance

Environmental Suitability: Indoor

Flammability / Reaction to Fire: NFPA 262, UL 910 (Plenum), FT6, IEC 60332-1-2

CPR Compliance: CPR Euroclass: Eca

NEC / UL Compliance: Article 800, CMP

CEC / C(UL) Compliance: CMP

European Directive Compliance: EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)

UK Regulation Compliance: UKCA Mark

APAC Compliance: China RoHS II (GB/T 26572-2011)

Non-Plenum Number: 8760

History

Update and Revision: Revision Number: 0.536 Revision Date: 01-20-2023

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
87760 002500	Red	Reel	500 ft	612825216018
87760 0021000	Red	Reel	1,000 ft	612825216001
87760 0025000	Red	Reel	5,000 ft	612825216025

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