



Product: [83802](#) 

Electronic, 2 C #12 Str TC, FEP Ins, OS+TC Brd, Red FEP Jkt, CMP FPLP

 [Request Sample](#)

Product Description

High Temperature Electronic, 2 Conductor 12AWG (7x20) Tinned Copper, FEP Insulation, Overall Beldfoil®+Tinned Copper Braid(85%) Shield, Red FEP Outer Jacket, CMP FPLP

Technical Specifications

Product Overview

Suitable Applications:	fire alarms; extreme high/low temperature environments; indoor/outdoor applications; low voltage analog signals (4-20ma, 0-10v, ...); low voltage control (24v, ...)
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Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	2	12 AWG	7x20	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Color Code
Conductor(s)	FEP - Fluorinated Ethylene Propylene	0.016 in (0.41 mm)	Black, White

Outer Shield

Shield Type	Material	Coverage
Tape	Bi-Laminate (Alum+Poly)	100%
Braid	Tinned Copper (TC)	85%

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
FEP - Fluorinated Ethylene Propylene	0.015 in (0.38 mm)	0.303 in (7.70 mm)

Overall Cable Diameter (Nominal):	0.303 in (7.70 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. Inductance	Max. Current
Conductor(s)	1.7 Ohm/1000ft (5.6 Ohm/km)	32 pF/ft (100 pF/m)	55 pF/ft (180 pF/m)	0.151 µH/ft (0.495 µH/m)	25 Amps per Conductor at 25°C

Voltage

UL Voltage Rating
300 V (CMP)

Mechanical Characteristics

Temperature

UL Temperature	Operating
200°C	-70°C to +200°C

Max. Pull Tension:	218 lbs (98.9 kg)
Bulk Cable Weight:	75 lbs/1000ft (110 kg/km)

Standards and Compliance

Environmental Suitability:	Outdoor, Oil Resistance, Burial
Flammability / Reaction to Fire:	NFPA 262
NEC / UL Compliance:	Article 760, Article 800
CEC / C(UL) Compliance:	CMP
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

Product Notes

Notes:	Gas Resistant
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History

Update and Revision:	Revision Number: 0.369 Revision Date: 09-07-2025
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
83802 002500	Red	Reel	500 ft	612825205746	C
83802 0021000	Red	Reel	1,000 ft	612825205739	C

Footnote:	C - CRATE REEL PUT-UP.
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