



Product: [83803](#)

Electronic, 3 C #12 Str TC, FEP Ins, OS+TC Brd, Red FEP Jkt, CMP FPLP

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Product Description

High Temperature Electronic, 3 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	Number of Element	AWG	Stranding	Material
Conductor(s)	3	12	7x20	TC - Tinned Copper

Insulation

Element	Material	Thickness [in.]	Color Code
Conductor(s)	FEP - Fluorinated Ethylene Propylene	0.016	Black, White, Red

Outer Shield Material

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

Outer Jacket Material

Material	Thickness	Nom. Diameter
FEP - Fluorinated Ethylene Propylene	0.015 in	0.323 in

Cable Diameter (Nominal):	0.323 in
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Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Max. Current
Conductor(s)	1.7 Ohm/1000ft	32 pF/ft	55 pF/ft	20 Amps per Conductor at 25°C

Voltage

UL Voltage Rating
300 V (CMP)

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.	Installation Min.
3.25 in	3.2 in

Max. Pull Tension:	240 lbs
Bulk Cable Weight:	106 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Oil Resistance, Burial
Sustainability:	CA Prop 65
Flammability / Fire Resistance:	NFPA 262, FT6, IEC 60332-1-2
NEC / UL Compliance:	Article 760, Article 800, CMP, FPLP
CEC / C(UL) Compliance:	CMP
CPR Euroclass:	Eca
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), 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: 0.336 Revision Date: 07-31-2020
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