



REPRESENTATIVE IMAGE

**Product:** [83509](#)

Electronic, 9 C #24 Str TC, FEP Ins, OS+TC Brd, FEP Jkt, CMP

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**Product Description**

High Temperature Electronic, 9 Conductor 24AWG (7x32) Tinned Copper, FEP Insulation, Overall Beldfoil®+Tinned Copper Braid(85%) Shield, FEP Outer Jacket, CMP

**Technical Specifications**

**Product Overview**

Suitable Applications:	extreme high/low temperature environments; chemical resistant; outdoor and burial applications; low voltage analog signals (4-20ma, 0-10v, ...); low voltage control (24v, ...); line level audio; voice communications; panel wiring
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**Construction Details**

**Conductor**

Element	Number of Element	Size	Stranding	Material
Conductor(s)	9	24 AWG	7x32	TC - Tinned Copper

**Insulation**

Element	Material	Nom. Thickness	Color Code
Conductor(s)	FEP - Fluorinated Ethylene Propylene	0.006 in (0.15 mm)	Black, White, Red, Green, Orange, Blue, White/Black Stripe, Red/Black Stripe, Green/Black Stripe

**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	0.014 in (0.36 mm)	0.188 in (4.78 mm)

Overall Cable Diameter (Nominal):	0.188 in (4.78 mm)
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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)	24 Ohm/1000ft (79 Ohm/km)	20 pF/ft (66 pF/m)	36 pF/ft (120 pF/m)	1.4 Amps per Conductor at 25°C

**Voltage**

<b>UL Voltage Rating</b>
300 V (CMP)

**Mechanical Characteristics**

**Temperature**

UL Temperature	Operating
150°C	-70°C to +200°C

**Bend Radius**

Stationary Min.	Installation Min.
1.9 in (48 mm)	1.9 in (48 mm)

Max. Pull Tension:	55 lbs
Bulk Cable Weight:	34 lbs/1000ft (51 kg/km)

## Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Oil Resistance
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	NFPA 262, 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)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

## Product Notes

Notes:	Gas Resistant
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## History

Update and Revision:	Revision Number: 0.358 Revision Date: 12-15-2021
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## Variants

Item #	Color	Putup Type	Length	UPC
83509 002100	Red	Reel	100 ft	612825204824
83509 002500	Red	Reel	500 ft	612825204848
83509 0021000	Red	Reel	1,000 ft	612825204831

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