



**Product:** <u>83509</u> ☑

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

Request Sample

# **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**

### **Construction Details**

#### Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	9	24 AWG	7x32	TC - Tinned Copper

#### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	FEP - Fluorinated Ethylene Propylene	0.006 in (0.15 mm)	0.036 in (0.91 mm)	Black, White, Red, Green, Orange, Blue, White/Black Stripe, Red/Black Stripe, Green/Black Stripe

## Outer Shield

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

### Outer Jacket

Material		Nom. Thickness	Nom. Diameter
FEP - Fluorinated Ethylene Pr	ropylene	0.014 in (0.36 mm)	0.190 in (4.83 mm)
Overall Cable Diameter (Nominal):	0.190 ir	n (4.83 mm)	

# **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	20 pF/ft (66 pF/m)	36 pF/ft (120 pF/m)	1.4 Amps per Conductor at 25°C

## Voltage

UL Voltage Rating 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:	49.5 lbs (22.5 kg)
Bulk Cable Weight:	34 lbs/1000ft

## **Standards and Compliance**

Environmental Suitability:	Indoor - Plenum, Indoor, Outdoor, Sunlight Resistance, Oil Resistance
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	NFPA 262, UL 910 (Plenum), FT6
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), REACH, 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)

## **Product Notes**

Notes:	Gas Resistant			

#### History

Update and Revision:	Revision Number: 0.520 Revision Date: 02-03-2025	

#### **Part Numbers**

### Variants

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

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