


**Product: [88641](#)**
**Electronic, 2 C #24 Str TC, FEP Ins, OS, FEP Jkt, CMP**
[Request Sample](#)
**Product Description**

High Temperature Electronic, 2 Conductor 24AWG (7x32) Tinned Copper, FEP Insulation, Overall Beldfoil® 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 digital control (24V, ...); line level audio; voice communications; panel wiring
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**Construction Details**
**Conductor**

Element	No. of Elements	Size	Stranding	Material
Pair(s)	1	24 AWG	7x32	TC - Tinned Copper

**Insulation**

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	FEPE - Fluorinated Ethylene Propylene	0.006 in (0.15 mm)	0.036 in (0.91 mm)	Black & Red

**Outer Shield**

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC

**Outer Jacket**

Material	Nom. Thickness	Nom. Diameter
FEPE - Fluorinated Ethylene Propylene	0.015 in (0.38 mm)	0.106 in (2.69 mm)

Overall Cable Diameter (Nominal): 0.106 in (2.69 mm)

**Electrical Characteristics**
**Electricals**

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Inductance	Max. Current
Pair(s)	28.8 Ohm/1000ft	31 pF/ft (100 pF/m)	59 pF/ft (190 pF/m)	0.17 $\mu$ H/ft (0.56 $\mu$ H/m)	3.8 Amps per Conductor at 30°C

Nom Outer Shield DCR: 18.38 Ohm/1000ft (60.30 Ohm/km)

**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.
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1.1 in (28 mm)

1.1 in (28 mm)

Max. Pull Tension: 16.5 lbs (7.48 kg)

Bulk Cable Weight: 10 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor, Oil Resistance, Burial
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	NFPA 262, UL 910 (Plenum), 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), 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)
Plenum Number:	82641
Non-Plenum Number:	8641

## History

Update and Revision: Revision Number: 0.523 Revision Date: 09-07-2025

## Part Numbers

### Variants

Item #	Color	Putup Type	Length	UPC	Footnote
88641 002100	Red	Reel	100 ft	612825217053	
88641 002500	Red	Reel	500 ft	612825217077	C
88641 0021000	Red	Reel	1,000 ft	612825217060	C

Footnote: C - CRATE REEL PUT-UP.

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