



**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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### Physical Characteristics (Overall)

#### Conductor

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

Conductor Count:	2
Total Number of Pairs:	1

#### Insulation

Element	Material	Nominal Wall Thickness
Pair(s)	FEP - Fluorinated Ethylene Propylene	0.006 in

#### Color Chart

Number	Color
1	Black & Red

#### Outer Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Alum / Poly	Beldfoil®	100 %	TC - Tinned Copper	24	7x32

#### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
FEP - Fluorinated Ethylene Propylene	0.106 in	0.014 in

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
24.1 Ohm/1000ft	17 Ohm/1000ft

#### Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
31 pF/ft	59 pF/ft

#### Inductance

Nominal Inductance
0.17 µH/ft

## Current

### Max. Recommended Current [A]

2.2 Amps per conductor @ 25°C

## Voltage

### UL Voltage Rating

300 V RMS

## Temperature Range

Operating Temp Range: -70°C To +200°C

## Mechanical Characteristics

Bulk Cable Weight: 9 lbs/1000ft

Max Recommended Pulling Tension: 16 lbs

Min Bend Radius/Minor Axis: 1.25 in

## Standards

NEC Articles: 800

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

CPR Euroclass: Eca

## Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2003/96/EC (BFR): Yes

EU Directive 2011/65/EU (ROHS II): Yes

EU Directive 2012/19/EU (WEEE): Yes

EU Directive 2015/863/EU: Yes

EU Directive Compliance: EU Directive 2003/11/EC (BFR)

EU CE Mark: Yes

EU RoHS Compliance Date (yyyy-mm-dd): 2005-04-01

MII Order #39 (China RoHS): Yes

## Flammability, LSOH, Toxicity Testing

UL Flammability: NFPA 262

CSA Flammability: FT6

ISO/IEC Flammability: IEC 60332-1-2

UL voltage rating: 300 V RMS

## Plenum/Non-Plenum

Plenum (Y/N): Yes

Plenum Number: 82641

## Part Number

Non-Plenum Number: 8641

## Variants

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

Footnote: C - CRATE REEL PUT-UP.

## History

Update and Revision: Revision Number: 0.298 Revision Date: 05-11-2020

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