



**Product:** [83559](#) 

Electronic, 9 C #22 Str TC, FEP Ins, OS+TC Brd, FEP Jkt, CMP

 [Request Sample](#)

## Product Description

High Temperature Electronic, 9 Conductor 22AWG (7x30) 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	No. of Elements	Size	Stranding	Material
Conductor(s)	9	22 AWG	7x30	TC - Tinned Copper

#### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	FEP - Fluorinated Ethylene Propylene	0.007 in (0.18 mm)	0.042 in (1.1 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)	0.211 in (5.36 mm)

Overall Cable Diameter (Nominal):	0.211 in (5.36 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)	15.5 Ohm/1000ft	23 pF/ft (75 pF/m)	40 pF/ft (130 pF/m)	1.9 Amps per Conductor at 25°C

Nom Outer Shield DCR:	18 Ohm/1000ft (59 Ohm/km)
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#### 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.
2.11 in (53.6 mm)	2.11 in (53.6 mm)

Max. Pull Tension:	82 lbs (37 kg)
Bulk Cable Weight:	46 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
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## History

Update and Revision:	Revision Number: 0.524 Revision Date: 09-07-2025
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## Part Numbers

### Variants

Item #	Color	Putup Type	Length	UPC	Footnote
83559 002100	Red	Reel	100 ft	612825205012	
83559 002500	Red	Reel	500 ft	612825205036	C
83559 0021000	Red	Reel	1,000 ft	612825205029	C

Footnote:	C - CRATE REEL PUT-UP.
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