



**Part Number:** 83609

Electronic, 9 C #20 Str TC, FEP Ins, OS+TC Brd, FEP Jkt, CMP

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## Product Description

High Temperature Electronic, 9 Conductor 20AWG (7x28) Tinned Copper, FEP Insulation, Overall Beldfoil®+Tinned Copper Braid(85%) Shield, FEP Outer Jacket, CMP

## Technical Specifications

### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	No. of Conductors
20	7x28	TC - Tinned Copper	9

Conductor Count:	9
Conductor Size:	20 AWG

#### Insulation

Material	Nominal Wall Thickness
FEP - Fluorinated Ethylene Propylene	0.006 in

#### Color Chart

Number	Color
1	Black
2	White
3	Red
4	Green
5	Orange
6	Blue
7	White/Black
8	Red/Black
9	Green/Black

#### Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum/Polyester	Beldfoil®	100 %
Braid	2	TC - Tinned Copper		85 %

#### Outer Jacket Material

Material	Material Trade Name	Nominal Diameter	Nominal Wall Thickness
FEP - Fluorinated Ethylene Propylene	Teflon®	0.238 in	0.014 in

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
8.6 Ohm/1000ft	2.98 Ohm/1000ft

#### Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
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26 pF/ft	51 pF/ft
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#### Current

##### Max. Recommended Current [A]

2.7 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: 60 lbs/1000ft

Max Recommended Pulling Tension: 180 lbs

Min Bend Radius/Minor Axis: 2.5 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

CA Prop 65 (CJ for Wire & Cable): Yes

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

#### Part Number

##### Variants

Item #	Color	UPC	Length	Footnote
83609 002100	Red	612825205173	100 ft	C
83609 0021000	Red	612825205180	1,000 ft	C
83609 002500	Red	612825205197	500 ft	C

Footnote: C - CRATE REEL PUT-UP.

#### Product Notes

Notes: Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

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