

Product: <u>85168</u> ⊠	
Electronic, 8 Pr #20 Str TC,	ETFE Ins, OS, ETFE Jkt
😭 Request Sample	

Product Description

High Temperature Electronic, 8 Pair 20AWG (7x28) Tinned Copper, ETFE Insulation, Overall Beldfoil® Shield, ETFE Outer Jacket

Technical Specifications

Product Overview

Suitable Applications: extreme high/low temperature environments; chemical resistant; low voltage analog signals (4-20ma, 0-10v,); low voltage control (24v,);); instrumentation
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
20	7x28	TC - Tinned Copper	8
Condu	ctor Count:		16
Total I	Number of Pa	iirs:	8

Insulation

Material	Material Trade Name	Nominal Wall Thickness
ETFE - Ethylene Tetrafluoroethylene	Tefzel®	0.015 in

Color Chart

Number	Color
1	Black & Red
2	Black & White
3	Black & Green
4	Black & Blue
5	Black & Yellow
6	Black & Brown
7	Black & Orange
8	Red & White

Outer Shield Material

Туре	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Таре	Alum / Kapton®	Beldfoil®	100%	TC - Tinned Copper	22	7x30

Outer Jacket Material

Material	Material Trade Name	Nominal Diameter	Nominal Wall Thickness
ETFE - Ethylene Tetrafluoroethylene	Tefzel®	0.439 in	0.025 in

Electrical Characteristics

Conductor	DCR

Nominal Conductor DCR 9.3 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
23 pF/ft	40 pF/ft

Inductance

Nominal Inductance

Impedance

Nominal	Characteristic Impedance
73 Ohm	

Current

Max. Recommended Current [A]
4 Amps per Conductor at 25°C

Voltage

Non-UL Voltage Rating

300 V RMS

Temperature Range

UL Temp Rating:	150°C
Operating Temp Range:	-60°C To +150°C

Mechanical Characteristics

Bulk Cable Weight:	115 lbs/1000ft
Max. Pull Tension:	224 lbs
Min Bend Radius/Minor Axis:	4.5 in

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, LS0H, Toxicity Testing

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UL voltage rating	:	300 V RMS		
Plenum/Non	Plenum			
Plenum (Y/N):		No		
Part Number				
/ariants				
ltem #	Color	Putup Type Length	UPC	
85168 3681000	Clear, Transparent	Reel 1,000 ft	612825210641	
Footnote:		C - CRATE REEL	. PUT-UP.	
Product Note	s			
Notes: Tef		Tefzel and Kapto	n are DuPont trademarks.	
History				
Update and Revision: Revision Number: 0.295 Revision Date: 06-08-2020		Pevision Number	" 0.295 Revision Date: 06-08-2020	

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