

Part Number: 85168

High-Temp Control/Instrumentation, (8 pr) 20 AWG
(7x28) TC, ETFE/ETFE, Foil Shld

Product Description

Eight 20 AWG pairs stranded (7x28) tinned copper conductors, Tefzel® (ETFE) insulation, overall Aluminim-Kapton® shield (100% coverage), Tefzel® (ETFE) jacket.

Product Specifications

Technical Specifications

Construction and Dimensions

Conductor:

AWG	Stranding	Material	No. of Pairs
20	7x28	TC - Tinned Copper	8
Total Number of Conductors:			16

Insulation:

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

Color Chart 1:

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

Outershield 1:

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Aluminum-Kapton® Foil	Beldfoil®	100 %	TC - Tinned Copper	22	7x30 mm

Outerjacket 1:

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

Impedance:

Nominal Characteristic Impedance
73 Ohm

Current:

Max. Recommended Current [A]
4 Amps per conductor @ 25°C

Inductance:

Nominal Inductance
0.186 µH/ft

Voltage:

Non-UL Voltage Rating
300 V RMS

Use

Max Recommended Pulling Tension:	224 lbs
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Safety

Temperature Range

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

Mechanical Characteristics

Min Bend Radius/Minor Axis:	4.5 in
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Part Number

Plenum (Y/N):	No
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Standards

CA Prop 65 (CJ for Wire & Cable):	CA Prop 65 (CJ for Wire & Cable)
MII Order #39 (China RoHS):	MII Order #39 (China RoHS)
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	EU CE Mark

History

Notes:	Tefzel and Kapton are DuPont trademarks.
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Product Variants

Part Number	Color	Put-Up Type	Length
85168 3681000	CLEAR, TRANSPARENT	Reel	1000 ft

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