



Product: [83393](#)

Electronic, 2 C #20 Str TC, FEP Ins, OS, Silicone Jkt, AWM 4516

Request Sample

Product Description

High Temperature Electronic, 2 Conductor 20AWG (7x28) Tinned Copper, FEP Insulation, Overall Beldfoil® Shield, Silicone Outer Jacket, AWM 4516

Technical Specifications

Product Overview

Suitable Applications:	extreme high/low temperature environments; 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	Number of Element	Size	Stranding	Material
Conductor(s)	2	20 AWG	7x28	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	FEP - Fluorinated Ethylene Propylene	0.020 in (0.51 mm)	0.077 in (2.0 mm)	Black, Red

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Textile (Conductive)	100%	
Tape	Bi-Laminate (Alum+Nomex®)	100%	20 AWG (7x28) TC

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
Silicone Rubber	0.037 in (0.94 mm)	0.242 in (6.15 mm)

Overall Cable Diameter (Nominal):	0.242 in (6.15 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)	11.2 Ohm/1000ft	22 pF/ft (72 pF/m)	40 pF/ft (130 pF/m)	3.8 Amps per Conductor at 25°C

Voltage

UL Voltage Rating	Voltage Rating
600 V (UL AWM 4516)	2000 V DC (Through Jacket)

Mechanical Characteristics

Temperature

UL Temperature	Operating
150°C	-70°C to +150°C

Bend Radius

Stationary Min.	Installation Min.
2.42 in (61.5 mm)	2.42 in (61.5 mm)

Max. Pull Tension:	37.8 lbs (17.1 kg)
Bulk Cable Weight:	36 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor - Plenum, Indoor
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	VW-1 (Singles)
AWM Compliance:	AWM 4516
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Other Standard Compliance(s):	NEMA HP3

History

Update and Revision:	Revision Number: 0.527 Revision Date: 01-20-2023
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
83393 004500	Yellow	Reel	500 ft	612825204572

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