



Product: [83394](#)

Electronic, 2 C #22 Str TC, FEP Ins, OS, Silicone Jkt, AWM 4516

Request Sample

Product Description
High Temperature Electronic, 2 Conductor 22AWG (7x30) 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	22 AWG	7x30	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	FEP - Fluorinated Ethylene Propylene	0.016 in (0.41 mm)	0.060 in (1.5 mm)	Black, White

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Textile (Conductive)	100%	
Tape	Bi-Laminate (Alum+Poly)	100%	22 AWG (7x30) TC

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
Silicone Rubber	0.030 in (0.76 mm)	0.199 in (5.05 mm)

Overall Cable Diameter (Nominal):	0.199 in (5.05 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)	18.1 Ohm/1000ft	22 pF/ft (72 pF/m)	40 pF/ft (130 pF/m)	2.8 Amps per Conductor at 25°C

Voltage

UL Voltage Rating	Voltage Rating
600 V (UL AWM 4516)	350 V (Between Conductors), 2000 V DC (Through Jacket)

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.	Installation Min.
1.99 in (50.5 mm)	1.99 in (50.5 mm)

Max. Pull Tension:	27 lbs (12 kg)
Bulk Cable Weight:	26 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: 0.513 Revision Date: 01-20-2023
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
83394 002500	Red	Reel	500 ft	612825204596
83394 002U500	Red	UnReel	500 ft	612825204589

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