



Product: <u>83506</u> ☑

Electronic, 6 C #24 Str TC, FEP Ins, OS+TC Brd, FEP Jkt, CMP

Request Sample

Product Description

High Temperature Electronic, 6 Conductor 24AWG (7x32) Tinned Copper, FEP Insulation, Overall Beldfoil®+Tinned Copper Braid(85%) Shield, FEP Outer Jacket, CMP

Technical Specifications

Product Overview

Suitable Applications: extreme high/low temperature environments; chemical resistant; outdoor and burial applications; low voltage analog signals (4-20ma, 0-10v, ...); low voltage control (24v, ...); line level audio; voice communications; panel wiring

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material	
Conductor(s)	6	24 AWG	7x32	TC - Tinned Copper	

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code	
Conductor(s)	FEP - Fluorinated Ethylene Propylene	0.006 in (0.15 mm)	0.036 in (0.91 mm)	Black, White, Red, Green, Orange, Blue	

Outer Shield

Shield Type	Material	Coverage	
Таре	Bi-Laminate (Alum+Poly)	100%	
Braid	Tinned Copper (TC)	85%	

Outer Jacket

Material		Nom. Thickness	Nom. Diameter
FEP - Fluorinated Ethylene Pi	ropylene	0.014 in (0.36 mm)	0.167 in (4.24 mm)
Overall Cable Diameter (Nominal):	0.167 ir	n (4.24 mm)	

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Max. Current	
Conductor(s)	24 Ohm/1000ft	20 pF/ft (66 pF/m)	36 pF/ft (120 pF/m)	1.4 Amps per Conductor at 25°C	

Voltage

UL Voltage Rating 300 V (CMP)

Mechanical Characteristics

Temperature

UL Temperature	Operating
150°C	-70°C to +200°C

Bend Radius

Stationary Min.	Installation Min.
1.67 in (42.4 mm)	1.67 in (42.4 mm)
Max. Pull Tension	: 33 lbs (

Standards and Compliance

Bulk Cable Weight:

Environmental Suitability:	ability: Indoor - Plenum, Indoor, Outdoor, Sunlight Resistance, Oil Resistance		
Sustainability:	CA Prop 65		
Flammability / Reaction to Fire:	NFPA 262, UL 910 (Plenum), FT6		
NEC / UL Compliance:	Article 800, CMP		
CEC / C(UL) Compliance:	CMP		
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)		
APAC Compliance:	China RoHS II (GB/T 26572-2011)		

Product Notes

Notes: Con Registerst	
Notes: Gas Resistant	

History

Update and Revision:	Revision Number: 0.512 Revision Date: 11-27-2023

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
83506 002500	Red	Reel	500 ft	612825204817	С
83506 0021000	Red	Reel	1,000 ft	612825204800	С

26 lbs/1000ft

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