Product: 83754

Electronic, 4 C #14 Str TC, FEP Ins, OS+TC Brd, Red FEP Jkt, CMP FPLP

Request Sample

Product Description

High Temperature Electronic, 4 Conductor 14AWG (7x22) Tinned Copper, FEP Insulation, Overall Beldfoil®+Tinned Copper Braid(85%) Shield, Red FEP Outer Jacket, CMP FPLP

Technical Specifications

Product Overview

Suitable Applications:	fire alarms; extreme high/low temperature environments; indoor/outdoor applications; low voltage analog signals (4-20ma, 0-10v, ...); low voltage control (24v, ...)

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Conductors
14	7x22	TC - Tinned Copper	4

Conductor Count:	4

Insulation

Material	Material Trade Name	Nominal Wall Thickness
FEP - Fluorinated Ethylene Propylene	Teflon®	0.016 in

Color Chart

Number	Color
1	Black
2	White
3	Red
4	Green

Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Alum / Poly	Beldfoil®	100 %
Braid	2	TC - Tinned Copper		85 %

Outer Jacket Material

Material	Material Trade Name	Nominal Diameter	Nominal Wall Thickness
FEP - Fluorinated Ethylene Propylene	Teflon®	0.311 in	0.015 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
2.3 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
30 pF/ft	52 pF/ft

Current

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

Voltage

UL Voltage Rating
300 V RMS

Temperature Range

UL Temp Rating:	200°C
Operating Temp Range:	-70°C To +200°C

Mechanical Characteristics

Bulk Cable Weight:	98 lbs/1000ft
Max Recommended Pulling Tension:	270 lbs
Min Bend Radius/Minor Axis:	3.25 in

Standards

NEC Articles:	800, 760
NEC/(UL) Specification:	CMP, FPLP
CEC/C(UL) Specification:	CMP

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

UL Flammability:	NFPA 262
CSA Flammability:	FT6
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	Yes

Part Number

Variants

Item #	Color	Putup Type	Length	UPC
83754 002500	Red	Reel	500 ft	612825205715
83754 0021000	Red	Reel	1,000 ft	612825205708

Footnote:	C - CRATE REEL PUT-UP.

Product Notes

Notes:	Teflon« is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

History

Update and Revision:	Revision Number: 0.297 Revision Date: 04-28-2020

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