Product: 85164 ☒

Electronic, 4 Pr #20 Str TC, ETFE Ins, OS, ETFE Jkt

⚷ Request Sample

Product Description

High Temperature Electronic, 4 Pair 20AWG (7x28) Tinned Copper, ETFE Insulation, Overall Beldfoil® Shield, ETFE Outer Jacket

Technical Specifications

Product Overview

Suitable Applications:	extreme high/low temperature environments; chemical resistant; low voltage analog signals (4-20ma, 0-10v, ...); low voltage control (24v, …); instrumentation

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	4	20	7x28	TC - Tinned Copper

Insulation

Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
ETFE - Ethylene Tetrafluoroethylene	0.015 in (0.38 mm)	0.068 in (1.7 mm)	Black & Red, Black & White, Black & Green, Black & Blue

Outer Shield

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

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
ETFE - Ethylene Tetrafluoroethylene	0.025 in (0.64 mm)	0.344 in

Electrical Characteristics

Electricals

Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedance	Max. Current
10.92 Ohm/1000ft	23 pF/ft (75 pF/m)	40 pF/ft (130 pF/m)	73 Ohm	6.4 Amps per Conductor at 25ºC

Voltage

Voltage Rating
300 V

Mechanical Characteristics

Temperature

UL Temperature	Operating
150°C	-60°C To +150°C

Bend Radius

Stationary Min.	Installation Min.
3.44 in (87.4 mm)	3.44 in

Max. Pull Tension:	109.8 lbs (49.80 kg)
Bulk Cable Weight:	66 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor
CPR Compliance:	CPR Euroclass: Eca
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)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)

Product Notes

Notes:	Tefzel and Kapton are DuPont trademarks.

History

Update and Revision:	Revision Number: 0.388 Revision Date: 12-22-2023

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
85164 368100	Clear, Transparent	Reel	100 ft	612825210627	C
85164 3681000	Clear, Transparent	Reel	1,000 ft	612825210634	C