BELDEN

Product: 85241 ☑

Electronic, 3 C #16 Str TC, ETFE Ins, OS, ETFE Jkt

⚐ Request Sample

REPRESENTATIVE IMAGE

Product Description

High Temperature Electronic, 3 Conductor 16AWG (19x29) 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
Conductor(s)	3	16 AWG	19x29	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Color Code
Conductor(s)	ETFE - Ethylene Tetrafluoroethylene	0.014 in (0.36 mm)	Black, Red, Green

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Kapton®)	100%	18 AWG (7x26) TC

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
ETFE - Ethylene Tetrafluoroethylene	0.020 in (0.51 mm)	0.225 in (5.72 mm)

Overall Cable Diameter (Nominal):	0.225 in (5.72 mm)

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Max. Current
Conductor(s)	4.27 Ohm/1000ft (14.0 Ohm/km)	34 pF/ft (110 pF/m)	61.2 pF/ft (201 pF/m)	7 Amps per Conductor at 25ºC

Voltage

Voltage Rating
350 V

Mechanical Characteristics

Temperature

Operating
-60°C to +150°C

Bend Radius

Stationary Min.	Installation Min.
2.3 in (58 mm)	2.3 in (58 mm)

Max. Pull Tension:	142 lbs (64.4 kg)

Bulk Cable Weight:	45 lbs/1000ft (67 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL1685 (UL Loading), IEC 60332-1-2
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: 0.369 Revision Date: 02-03-2025

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
85241 3681000	Clear, Transparent	Reel	1,000 ft	612825212416	C