



Product: [85103](#)

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

[Request Sample](#)

Product Description

High Temperature Electronic, 3 Conductor 16AWG (19x29) Tinned Copper, ETFE Insulation, 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	Nom. Insulation Diameter	Color Code
Conductor(s)	ETFE - Ethylene Tetrafluoroethylene	0.0135 in (0.343 mm)	0.082 in (2.1 mm)	Black, White, Red

Outer Shield

Material
No Shield

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
ETFE - Ethylene Tetrafluoroethylene	0.019 in (0.48 mm)	0.223 in

Overall Cable Diameter (Nominal): 0.223 in.

Electrical Characteristics

Electricals

Nom. Conductor DCR	Max. Current
4.76 Ohm/1000ft	12 Amps per Conductor at 25°C

Voltage

Voltage Rating
300 V

Mechanical Characteristics

Temperature

Operating
-60°C To +150°C

Bend Radius

Stationary Min.	Installation Min.
2.23 in (56.6 mm)	2.23 in

Max. Pull Tension: 120 lbs (54 kg)

Bulk Cable Weight:	40 lbs/1000ft
--------------------	---------------

Standards and Compliance

Environmental Suitability:	Indoor
Flammability / Reaction to Fire:	VW-1
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 is a trademark of Dupont.
--------	----------------------------------

History

Update and Revision:	Revision Number: 0.376 Revision Date: 05-05-2023
----------------------	--

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
85103 3681000	Clear, Transparent	Reel	1,000 ft	612825210603	C

© 2024 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.