



REPRESENTATIVE IMAGE

**Product:** [83659](#)

Electronic, 9 C #18 Str TC, FEP Ins, OS+TC Brd, FEP Jkt, CMP

[Request Sample](#)

**Product Description**

High Temperature Electronic, 9 Conductor 18AWG (19x30) 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	Number of Element	AWG	Stranding	Material
Conductor(s)	9	18	19x30	TC - Tinned Copper

**Insulation**

Element	Material	Thickness	Color Code
Conductor(s)	FEP - Fluorinated Ethylene Propylene	0.007 in	Black, White, Red, Green, Orange, Blue, White/Black Stripe, Red/Black Stripe, Green/Black Stripe

**Outer Shield Material**

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

**Outer Jacket Material**

Material	Thickness	Nom. Diameter
FEP - Fluorinated Ethylene Propylene	0.015 in	0.265 in

Cable Diameter (Nominal): 0.265 in

**Electrical Characteristics**

**Electricals**

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Max. Current
Conductor(s)	5.8 Ohm/1000ft	33 pF/ft	60 pF/ft	3.8 Amps per Conductor at 25°C

Nom Outer Shield DCR: 2.7 Ohm/1000ft

**Voltage**

UL Voltage Rating
300 V (CMP)

**Mechanical Characteristics**

**Temperature**

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

**Bend Radius**

Stationary Min.	Installation Min.
2.75 in	2.7 in

Max. Pull Tension:	216 lbs
Bulk Cable Weight:	81 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Oil Resistance, Burial
Sustainability:	CA Prop 65
Flammability / Fire Resistance:	NFPA 262, FT6, IEC 60332-1-2
NEC / UL Compliance:	Article 800, CMP
CEC / C(UL) Compliance:	CMP
CPR Euroclass:	Eca
European Directive Compliance:	EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

## Product Notes

Notes:	Gas Resistant
--------	---------------

## History

Update and Revision:	Revision Number: 0.343 Revision Date: 09-30-2020
----------------------	--

© 2021 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.