



Product: [88760](#)

Electronic, 2 C #18 Str TC, FEP Ins, OS, FEP Jkt, CMP

[Request Sample](#)

Product Description

High Temperature Electronic, 2 Conductor 18AWG (19x30) Tinned Copper, FEP Insulation, Overall Beldfoil® Shield, FEP Outer Jacket, CMP

Technical Specifications

Product Overview

Suitable Applications:	Wet Locations, POS, Gas/Vapor Tight Jacket, Plenums, Risers, Oil and Gasoline Exposure
------------------------	--

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
18	19x30	TC - Tinned Copper	1

Conductor Count:	2
Total Number of Pairs:	1

Insulation

Material	Nominal Wall Thickness
FEP - Fluorinated Ethylene Propylene	0.007 in

Color Chart

Number	Color
1	Black & Red

Outer Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Alum / Poly	Beldfoil® with shorting fold	100 %	TC - Tinned Copper	20	Stranded

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
FEP - Fluorinated Ethylene Propylene	0.143 in	0.014 in

Construction and Dimensions

Stranding

Lay Direction	Twists
Left Hand	6 twist/ft

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
5.5 Ohm/1000ft	7.3 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
51 pF/ft	97 pF/ft

Inductance

Nominal Inductance

0.15 µH/ft

Impedance

Nominal Characteristic Impedance

29 Ohm

Delay

Nominal Delay | Nominal Velocity of Propagation (VP) [%]

1.47 ns/ft | 69 %

Current

Element	Max. Recommended Current [A]
10C temperature rise	5.4 Amps per conductor @ 25°C ambient

Voltage

UL Voltage Rating

300 V RMS

Temperature Range

Operating Temp Range: -70°C To +200°C

Mechanical Characteristics

Oil Resistance:	Yes
Bulk Cable Weight:	23 lbs/1000ft
Max Recommended Pulling Tension:	64 lbs
Min Bend Radius/Minor Axis:	1.5 in

Standards

NEC Articles:	800
NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
CPR Euroclass:	Eca

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

Suitability

Suitability - Burial:	Yes
Suitability - Indoor:	Yes
Suitability - Oil Resistance:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LS0H, Toxicity Testing

UL Flammability:	NFPA 262
CSA Flammability:	FT6
ISO/IEC Flammability:	IEC 60332-1-2
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	Yes
---------------	-----

Part Number

Non-Plenum Number:	8760
--------------------	------

Variants

Item #	Color	UPC	Length	Footnote
88760 002100	Red	612825217275	100 ft	
88760 0021000	Red	612825217282	1,000 ft	C
88760 00210000	Red	612825217299	10,000 ft	C Z
88760 00220000	Red	612825217305	20,000 ft	C Y
88760 002500	Red	612825217312	500 ft	C
88760 0025000	Red	612825217329	5,000 ft	
88760 002U1000	Red	612825217251	1,000 ft	
88760 002U500	Red	612825217268	500 ft	

Footnote:	C - CRATE REEL PUT-UP.
Footnote:	Z - FINAL PUT-UP MAY VARY (= OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.
Footnote:	Y - FINAL PUT-UP LENGTH MAY VAR -10% TO +20% FROM LENGTH SHOWN. MAY CONTAIN 2 PIECES. MINIMUM LENGTH OF ANY ONE PIECE IS 1500'.

Product Notes

Notes:	For use in indoor plenum environments but also suitable for outdoor and underground applications. Gas/vapor-tight jacket.
--------	---

History

Update and Revision:	Revision Number: 0.312 Revision Date: 04-02-2020
----------------------	--

© 2020 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.