Belden



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:	extreme high/low temperature environments; chemical resistant; outdoor and burial applications; low voltage analog signals (4-20ma, 0-10v, ...); low voltage digital control (24v, …); line level audio; wet locations; panel wiring

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	1	18 AWG	19x30	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	FEP - Fluorinated Ethylene Propylene	0.007 in (0.18 mm)	0.057 in (1.4 mm)	Black, Red

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	20 AWG (7x28) TC

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
FEP - Fluorinated Ethylene Propylene	0.015 in (0.38 mm)	0.148 in (3.76 mm)

Overall Cable Diameter (Nominal):	0.148 in (3.76 mm)

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedence	Nom. Delay	Nom. Inductance	Nom. Velocity of Prop.	Max. Current
Pair(s)	7.06 Ohm/1000ft	51 pF/ft (170 pF/m)	97 pF/ft (320 pF/m)	29 Ohm	1.47 ns/ft	0.15 µH/ft (0.49 µH/m)	69%	17 Amps per Conductor at 30ºC

Nom Outer Shield DCR@Cond DCR1-cnv:	8.49 Ohm/1000ft (27.9 Ohm/km)

Voltage

UL Voltage Rating
300 V (CMP)

Mechanical Characteristics

Temperature

UL Temperature	Operating
150°C	-20°C to +150°C

Bend Radius

Stationary Min.	Installation Min.
1.5 in (38 mm)	1.5 in (38 mm)

Max. Pull Tension:	62 lbs (28 kg)
Bulk Cable Weight:	22 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Oil Resistance, Oil Resistance, Burial
Flammability / Reaction to Fire:	NFPA 262, UL 910 (Plenum), FT6, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 800, CMP
CEC / C(UL) Compliance:	CMP
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
UK Regulation Compliance:	UKCA Mark
Non-Plenum Number:	8760

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: 0.591 Revision Date: 09-07-2025

Part Numbers

Variants

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

Footnote:	C - CRATE REEL PUT-UP., Z - FINAL PUT-UP MAY VARY (= OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN., 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'.

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