




**Product:** [3076F](#) 

Fieldbus, 1 Pr #18 Str TC, PP Ins, OS, PVC Jkt, Flexible SUN RES OIL RES, PLTC-ER, ITC-ER, CMX-Outdoor, CM

 [Request Sample](#)

## Product Description

Fieldbus, 1 Pair 18AWG (7x26) Tinned Copper, PP Insulation, Overall Beldfoil® Shield, PVC Outer Jacket, Flexible SUN RES OIL RES, PLTC-ER, ITC-ER, CMX-Outdoor, CM

## Technical Specifications

**Suitable Applications:** exposure to rodent, crush, or cut through force, harsh environment digital and serial two-way communication, oil and gas extraction and refining sites, petrochemical, Profibus process automation or Foundation FieldBus process automation, extreme temperature environments, exposure to humidity/moisture, dust, and oil, remote locations long distance applications, etc.

### Conductor

Element	Number of Element	AWG	Stranding	Material
Pair(s)	1	18	7x26	TC - Tinned Copper

### Insulation

Element	Material	Thickness [in.]	Color Code
Pair(s)	PP - Polypropylene	0.022	Blue & Orange

### Outer Shield Material

Shield Type	Material	Coverage	Drainwire Type
Tape	Alum / Poly	100%	20 AWG (7x28) TC

### Outer Jacket Material

Material	Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.050 in	0.280 in

Cable Diameter (Nominal): 0.280 in

### Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Shield	Max. Capacitance Unbalance	Characteristic Impedance	Nom. Velocity of Prop.	Max. Current
Pair(s)	5.86 Ohm/1000ft	45 pF/ft	1.2 pF/ft	100 Ohm	66%	5.2 Amps per Conductor

Nom Outer Shield DCR: 7.5 Ohm/1000ft

### High Frequency (Nominal/Typical)

Element	Nom. Insertion Loss
Pair(s)	0.08 dB/100ft

### High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Max./Min. Input Impedance (unFitted)
0.031 MHz	0.091 dB/100ft	100 Ohm

### Voltage

UL Voltage Rating
300 V (CM, PLTC-ER), 150 V (ITC)

### Temperature

UL Rating	Operating
105°C	-40°C to +105°C

Bend Radius

Stationary Min.
2.5 in

Max. Pull Tension:	60 lbs
Bulk Cable Weight:	38 lbs/1000ft
Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Oil Resistance, Oil Resistance, Burial
Flammability / Fire Resistance:	UL1666 Riser, FT4, 1202, IEC 60332-1-2
NEC / UL Compliance:	Article 725, Article 727, Article 800, CM, CMX-Outdoor, ITC-ER, PLTC-ER
CEC / C(UL) Compliance:	CMG
IEEE Compliance:	1202, IEEE 383 Vertical Tray Flame Test (70,000 BTU)
CPR Euroclass:	Eca
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE)
Other Standard Compliance(s):	ISA/SP-50 Type A
Notes:	Fieldbus: Orange jacket. Profibus PA: Intrinsically Safe Blue jacket. Jacket diameter tolerance: +/- .010
Update and Revision:	Revision Number: 0.367 Revision Date: 07-28-2020

© 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.