



**Product:** [3077E](#)

Fieldbus, 1 Pr #22 Str TC, PP Ins, OS, PVC Jkt, Flexible, PLTC, ITC, CM

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## Product Description

Fieldbus, 1 Pair 22AWG (7x30) Tinned Copper, PP Insulation, Overall Beldfoil® Shield, PVC Outer Jacket, Flexible, PLTC, ITC, CM

## Technical Specifications

**Suitable Applications:** 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	22	7x30	TC - Tinned Copper

### Insulation

Element	Material	Thickness [in.]	Color Code
Pair(s)	PP - Polypropylene	0.015	Blue & Orange

### Outer Shield Material

Shield Type	Material	Coverage	Drainwire Type
Tape	Alum / Poly	100%	22 AWG (7x30) TC

### Outer Jacket Material

Material	Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.037 in	0.197 in

Cable Diameter (Nominal):	0.197 in
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### Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Shield	Max. Capacitance Unbalance	Characteristic Impedance	Nom. Velocity of Prop.	Max. Current
Pair(s)	17.1 Ohm/1000ft	44 pF/ft	1.2 pF/ft	100 Ohm	66%	2.5 Amps per Conductor

Nom Outer Shield DCR:	11.4 Ohm/1000ft
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### High Frequency (Nominal/Typical)

Element	Frequency [MHz]	Nom. Insertion Loss
Pair(s)	0.039 MHz	0.14 dB/100ft

### High Freq

Max. Insertion Loss (Attenuation)	Max./Min. Input Impedance (unFitted)
0.152 dB/100ft	100 Ohm

### Voltage

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

### Temperature

UL Rating	Operating
105°C	-30°C to +105°C

### Bend Radius

Stationary Min.

2.2 in

Max. Pull Tension:	27 lbs
Bulk Cable Weight:	18 lbs/1000ft
Environmental Suitability:	Sunlight Resistance
Flammability / Fire Resistance:	UL1685 UL Loading, IEC 60332-1-2
NEC / UL Compliance:	Article 725, Article 727, Article 800, CM, ITC, PLTC
CEC / C(UL) Compliance:	CM
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)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Notes:	CPE & LSOH Jacket optional.
Update and Revision:	Revision Number: 0.365 Revision Date: 07-28-2020

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