

Product: [3077ENH](#) 

Fieldbus, 1PR #22 Str TC, PO ins, OS, LSNH Jkt, 300 V



Product Description

Fieldbus, 1 Pair AWG 22 Tinned Copper - Stranded, Polyolefin (PO, PE, PP) insulation, Foil(s) or Copper Tape(s) shielding, LSZH / FRNC jacket , 300 V

Technical Specifications

Product Overview

Suitable Applications:	Instrumentation and computer cable; For data transmission applications
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
22	7x30	TC - Tinned Copper	1

Conductor Count:	2
Total Number of Pairs:	1

Insulation

Material	Nominal Diameter	Diameter +/- Tolerance	Nominal Wall Thickness
PE - Polyethylene	1.5 mm	0.05 mm	0.375 mm

Color Chart

Number	Color
Pair 1	White & Black

Outer Shield Material

Type	Material	Thickness of Foil	Drainwire Material	Drainwire AWG
Tape	Bi-Laminate (Alum+Poly)	9 / 23 µm	TC - Tinned Copper	AWG22/7

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	7.5 mm	2.15 mm

Electrical Characteristics

Conductor DCR

Max. Conductor DCR	Max. Outer Shield DCR
52.5 Ohm/km	41.5 Ohm/km

Capacitance

Max. Capacitance Conductor to Conductor	Max. Capacitance Conductor to Shield	Max. Capacitance Unbalance
85 pF/m	160 pF/m	4 pF/m

Impedance

Frequency [MHz]	Nominal Characteristic Impedance	Nominal Characteristic Tolerance
0.03125 MHz	100 Ohm	5 Ohm

Delay

Nominal Velocity of Propagation (VP) [%]
66%

#### High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)
0.01 MHz	0.6 dB/100m
0.039 MHz	0.67 dB/100m
0.1 MHz	0.9 dB/100m
0.5 MHz	3.5 dB/100m
1 MHz	5.1 dB/100m

#### Voltage

Voltage Rating [V]
300 V

### Temperature Range

Installation Temp Range:	-15°C To +80°C
Storage Temp Range:	-45°C To +80°C
Operating Temp Range (Flexible Install):	-15°C To +80°C
Operating Temp Range (Fixed Install):	-45°C To +80°C

### Mechanical Characteristics

Oil Resistance:	ASTMD741
Max. Pull Tension:	50 N
Min Bend Radius During Installation:	100 mm

### Standards

Other Compliance:	BS 7655 section 6.1 table 1, LTS 3
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### Applicable Environmental and Other Programs

Environmental Space:	Indoor
EU RoHS Compliance Date (yyyy-mm-dd):	2005-01-01

### Flammability, LS0H, Toxicity Testing

IEC Flammability:	IEC 60332-3-24
IEC 60754-1 (EN50267-1)- Halogen Amount:	Zero
IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Max. Conductivity:	2.5 µS/mm
IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Min. pH:	4.3

### Part Number

#### Variants

Item #	Color	Putup Type	Length	EAN
3077ENH.011000	Orange	Reel	1,000 m	8719605005601

### History

Update and Revision:	Revision Number: 0.182 Revision Date: 12-18-2020
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