

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

Environmental Space:	Indoor
Suitable Applications:	Instrumentation and computer cable; For data transmission applications

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
PO - Polyolefin	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	Aluminum/Polyester	9 / 23 μ m	TC - Tinned Copper	AWG22/7

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
LSZH / FRNC	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: ASTM D741

Max Recommended Pulling Tension: 50 N

Min Bend Radius During Installation: 100 mm

Standards

Other Specification: BS 7655 section 6.1 table 1, LTS 3

Applicable Environmental and Other Programs

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

Flammability, LS0H, Toxicity Testing

ISO/IEC Flammability: IEC 60332-3-24

Amount of Halogen acc. to IEC 60754-1 & EN50267-1: Zero

Part Number

Variants

Item # Color Length

3077ENH.011000 Orange 1,000 m

History

Update and Revision: Revision Number: 0.163 Revision Date: 01-31-2020

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