Part Number: 70001NH

IDS LSZH



Product Description

AWG18 (7xAWG26) tinned copper

Technical Specifications

Product Overview

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

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
18	7x26	TC - Tinned Copper	1

Conductor Count:	2
Total Number of Pairs:	1
Conductor Size:	18 AWG

Insulation

Material	Nominal Diameter	Diameter +/- Tolerance	Nominal Wall Thickness
FPE - Foamed Polyethylene	2.5 mm	0.05 mm	0.65 mm

Color Chart

Number	Color
Pair 1	Red & Green

Outer Shield Material

Type	Material	Thickness of Foil	Drainwire Material	Drainwire AWG	Drainwire Position	Min. Coverage [%]
Tape	Aluminum/Polyester	9 / 23 µm	TC - Tinned Copper	AWG20/7	In contact with tape and braid	
Braid	TC - Tinned Copper					85 %

Outer Jacket Material

Material	Color	Nominal Diameter	Nominal Wall Thickness
LSZH / FRNC (UV stabilised)	Black or Blue	8 mm	1.15 mm

Construction and Dimensions

Cabling

Description	Filler
1 pair and 2 fillers twisted to cable core	Polyethylene (2x) (1.65 mm)

Electrical Characteristics

Conductor DCR

Max. Conductor DCR	Max. Outer Shield DCR
20.5 Ohm/km	9 Ohm/km

Capacitance

Max. Capacitance Conductor to Conductor	Max. Capacitance Unbalance
80 pF/m	4 pF/m

Impedance

Frequency [MHz]	Nominal Characteristic Impedance	Nominal Characteristic Tolerance
0.03125 MHz	100 Ohm	20 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
0.039 MHz	0.3 dB/100m

Delay

Nominal Velocity of Propagation (VP) [%]
77 %

Voltage

Voltage Rating [V]
300 V

Temperature Range

Installation Temp Range:	-15°C To +70°C
Storage Temp Range:	-45°C To +70°C
Operating Temp Range (Flexible Install):	-15°C To +70°C
Operating Temp Range (Fixed Install):	-45°C To +70°C

Mechanical Characteristics

Oil Resistance:	IEC 60811-2-1
Max Recommended Pulling Tension:	260 N
Min Bend Radius During Installation:	120 mm
Min Setting Radius:	80 mm

Standards

CENELEC Compliance:	EN 50290-2-27
Other Specification:	BS 7655 section 6.1 table 1, LTS 3

Applicable Environmental and Other Programs

EU RoHS Compliance Date (yyyy-mm-dd):	2015-10-28

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
70001NH.001000	Black
70001NH.00120	Black
70001NH.00500	Black
70001NH.021000	Black
70001NH.02500	Black
70001NH.011000	Blue
70001NH.01500	Blue
70001NH.031000	Blue
70001NH.03500	Blue

History

Revision Number:	4

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