



Product: [9463LS](#)

Blue Hose, 1PR #20 Str TC, PO ins, F/B, LSNH Jkt,

Product Description

Blue Hose, 1 Pair AWG 20 Tinned Copper - Stranded, Polyolefin (PO, PE, PP) insulation, Foil + Braid(s) shielding, LSZH / FRNC jacket ,

Technical Specifications

Product Overview

Environmental Space:	Outdoor
Suitable Applications:	Twinaxial instrumentation and computer cable; For data transmission applications; Suitable for outdoor application (sunlight resistant) and direct burial

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
20	7x28	TC - Tinned Copper	1

Conductor Count:	2
Total Number of Pairs:	1

Insulation

Material	Nominal Diameter	Diameter +/- Tolerance
Polyethylene	1.96 mm	0.05 mm

Color Chart

Number	Color
Pair 1	Clear & Blue

Inner Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	Aluminum / Polyester	Beldfoil® (Z-Fold®)		Tinned copper	AWG20/7
Braid	Tinned copper		55 %		

Inner Jacket Material

Material	Color	Nominal Diameter	Nominal Wall Thickness
FRNC / LSZH	Blue (RAL 5012)	6.35 mm	0.89 mm

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
LSZH / FRNC (UV stabilised)	10.75 mm	1.3 mm

Construction and Dimensions

Cabling

Description	Filler
1 pair and 2 fillers twisted to cable core	Polyethylene (2x) (Clear, 1.32 mm)

Armor

Type of Armor	Material	Thickness of Armoring Wires	Coverage Percentage
Steel Wire Armoring	Galvanized steel wire	0.9 mm	Min. 95 %

Electrical Characteristics

Conductor DCR

Max. DCR Unbalance	Nominal Conductor DCR	Nominal Outer Shield DCR
2.53 %	31.2 Ohm/km	13.5 Ohm/km

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Shield
64.6 pF/m	118.1 pF/m

Impedance

Frequency [MHz]	Nominal Characteristic Impedance
N/A	78 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	1.97 dB/100m
10 MHz	6.89 dB/100m
50 MHz	11.81 dB/100m
100 MHz	24.61 dB/100m
200 MHz	36.09 dB/100m
400 MHz	52.49 dB/100m

Delay

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

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:	IEC 60811-404
Min Bend Radius During Installation:	161.25 mm

Standards

CENELEC Compliance:	EN 50290-2-27
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Applicable Environmental and Other Programs

EU RoHS Compliance Date (yyyy-mm-dd):	2005-01-01
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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
9463LS.001000	Blue	1,000 m
9463LS.001500	Blue	1,500 m
9463LS.00500	Blue	500 m

History

Update and Revision:	Revision Number: 0.164 Revision Date: 01-31-2020
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