



**Product:** [9463LS](#)

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

## Product Description

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

## Technical Specifications

### Product Overview

Suitable Applications:	Twinaxial instrumentation and computer cable; For data transmission applications; Suitable for outdoor application (sunlight resistant) and direct burial
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### 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
PE - Polyethylene	1.96 mm	0.05 mm

#### Color Chart

Number	Color
Pair 1	Clear & Blue

#### Inner Shield

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	Bi-Laminate (Alum+Poly)	Beldfoil® (Z-Fold®)		TC - Tinned Copper	AWG20/7
Braid	Tinned Copper (TC)		55%		

#### Inner Jacket

Material	Color	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	Blue (RAL 5012)	6.35 mm	0.89 mm

#### Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	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 Temperature Range:	-15°C To +80°C
Storage Temperature 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 50290-2-20
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## Applicable Environmental and Other Programs

Environmental Space:	Indoor, Indoor/Outdoor, Outdoor, Indoor/Outdoor - Euroclass Eca
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## Suitability

Suitability - Sunlight Resistance:	Yes
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## Flammability, LSOH, Toxicity Testing

IEC Flammability:	IEC 60332-3-24
IEC 60754-1 - Halogen Amount:	Zero
IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity:	2.5 µS/mm
IEC 60754-2 - Halogen Acid Gas Amount - Min. pH:	4.3
IEC 61034-2 - Smoke Density Min. Transmittance:	60%

## Related Part Numbers

### Variants

Item #	Color	Put-Up Type	Length	EAN
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9463LS.00500	Blue	Reel	500 m	8719605020697
9463LS.001000	Blue	Reel	1,000 m	8719605020673
9463LS.001500	Blue	Reel	1,500 m	8719605020680

## History

Update and Revision:	Revision Number: 0.233 Revision Date: 02-03-2025
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