

**Part Number: 9463NH**

**ControlBus™ Blue Hose® Industrial Twinax**



## Product Description

20 AWG, Stranded (42 x 36) TC Conductors, Polyethylene Insulation, Overall Beldfoil® + 85% TC Braid Shielding, Blue Sunlight-Resistant FRNC Jacket

## Technical Specifications

### Product Overview

Environmental Space:	Indoor - Euroclass Eca
Suitable Applications:	Twinaxial instrumentation and computer cable; For data transmission applications

### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	No. of Pairs
20	7x28	Tinned copper	1

Conductor Count:	2
Total Number of Pairs:	1
AWG Size:	20

#### Insulation

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

#### Color Chart

Number	Color
Pair 1	Clear & Blue

#### Outer Shield Material

Type	Material	Material Trade Name	Coverage [%]	Thickness of Foil	Drainwire Material	Drainwire AWG
Tape	Aluminum / Polyester	Z-fold®		9 / 23 µm	Tinned copper	AWG20/7
Braid	Tinned copper		55 %			

#### Outer Jacket Material

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

### Construction and Dimensions

#### Cabling

Filler
Polyethylene (2x) (Clear, 1.32 mm)

### 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
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64.6 pF/m	118.1 pF/m
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Impedance

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

Delay

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

High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)
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

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
Min Bend Radius During Installation:	63.5 mm

Standards

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

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
9463NH.001000	BLUE
9463NH.00152	BLUE
9463NH.00305	BLUE
9463NH.00500	BLUE

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