




**Product:** [9182NH](#) 

Twinax , 1PR #22 Str TC, PO ins, OS, LSNH Jkt, 300V

## Product Description

Twinax , 1 Pair AWG 22 Tinned Copper - Stranded, Polyolefin (PO, PE, PP) insulation, Foil(s) or Copper Tape(s) shielding, LSZH / FRNC jacket , 300V

## 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
22	19x34	TC - Tinned Copper	1

Conductor Count:	2
Total Number of Pairs:	1

#### Insulation

Material	Nominal Diameter	Diameter +/- Tolerance
FHDPE - Foamed High Density Polyethylene	3.45 mm	0.1 mm

#### Color Chart

Number	Color
Pair 1	Black & Yellow

#### Outer Shield Material

Type	Material	Material Trade Name	Thickness of Foil	Drainwire Material	Drainwire AWG
Tape	Aluminum/Polyester/Aluminum	Duofoil®	9 / 23 / 9 µm	TC - Tinned Copper	AWG22/19
Foil	Polyester		23 µm		

#### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
LSZH / FRNC (UV stabilised)	8.8 mm	0.89 mm

### Construction and Dimensions

#### Cabling

Description	Filler
1 pair and 2 fillers twisted to cable core	Foamed Fibrillated Polypropylene (2x) (White, 2.92 mm)

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
45.9 Ohm/km	20.7 Ohm/km

#### Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Shield
28.9 pF/m	45.1 pF/m

#### Inductance

Nominal Inductance
0.96 $\mu$ H/m

#### Impedance

Nominal Characteristic Impedance
150 Ohm

#### High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	1.31 dB/100m
5 MHz	2.79 dB/100m
10 MHz	3.94 dB/100m
20 MHz	5.58 dB/100m
50 MHz	8.86 dB/100m
100 MHz	14.11 dB/100m
200 MHz	20.34 dB/100m
400 MHz	28.87 dB/100m

#### Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
430 ns/ft	78 %

#### 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:	88 mm

#### Standards

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

#### Applicable Environmental and Other Programs

EU RoHS Compliance Date (yyyy-mm-dd):	1998-01-01
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#### Flammability, LS0H, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-1-2 and IEC 60332-3-24
Amount of Halogen acc. to IEC 60754-1 & EN50267-1:	Zero

#### Part Number

#### Variants

Item #	Color	Length
9182NH.001000	Black	1,000 m
9182NH.00152	Black	152 m
9182NH.00305	Black	305 m
9182NH.00500	Black	500 m

#### History

Update and Revision:	Revision Number: 0.182 Revision Date: 01-31-2020
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