




**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

Suitable Applications:	Twinaxial instrumentation and computer cable; For data transmission applications
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### 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
PE - Polyethylene (Foam)	3.45 mm	0.1 mm

#### Color Chart

Number	Color
Pair 1	Black & Yellow

#### Outer Shield

Type	Material	Material Trade Name	Thickness of Foil	Drainwire Material	Drainwire AWG
Tape	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	9 / 23 / 9 µm	TC - Tinned Copper	AWG22/19
Tape	Polyester		23 µm		

#### Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	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
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#### 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 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:	ASTMD741
Min. Bend Radius During Installation:	88 mm

### Standards

CPR Euroclass:	Eca
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### Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass Eca
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### Suitability

Suitability - Sunlight Resistance:	Yes
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### Flammability, LS0H, Toxicity Testing

IEC Flammability:	IEC 60332-1-2, IEC 60332-3-24
IEC 60754-1 - Halogen Amount:	Zero
IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity:	2.5 $\mu$ S/mm
IEC 60754-2 - Halogen Acid Gas Amount - Min. pH:	4.3

### Related Part Numbers

#### Variants

Item #	Color	Put-Up Type	Length	EAN
9182NH.00152	Black	Reel	152 m	8719605020192
9182NH.00305	Black	Reel	305 m	8719605020208
9182NH.00500	Black	Reel	500 m	8719605020215
9182NH.001000	Black	Reel	1,000 m	8719605020185

## History

Update and Revision:

Revision Number: 0.242 Revision Date: 02-03-2025

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