



Product: [9182LS](#)

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

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, SWA

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

Inner 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

Inner Jacket

Material	Color	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	Black	8.8 mm	0.89 mm

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	14.25 mm	1.4 mm

Construction and Dimensions

Cabling

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

Armor

Type of Armor	Material	Thickness of Armoring Wires	Coverage Percentage
Steel Wire Armoring	Galvanized steel wire	1.25 mm	Min. 95%

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 μ 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:	IEC 60811-404
Min. Bend Radius During Installation:	213.8 mm

Standards

CPR Euroclass:	Fca
CENELEC Compliance:	EN 50290-2-20

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 μ S/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
9182LS.001000	Black	Reel	1,000 m	8719605020161

History

Update and Revision:	Revision Number: 0.250 Revision Date: 02-03-2025
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