



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
------------------------	--

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
-----------	-----------

Inductance

Nominal Inductance
0.96 µH/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
----------------	-----

Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass Eca
----------------------	------------------------

Suitability

Suitability - Sunlight Resistance:	Yes
------------------------------------	-----

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 µS/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: 0.241 Revision Date: 02-15-2024
----------------------	--

© 2024 Belden, Inc
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.