




Product: [9541NH](#) 

Computer Cable for EIA RS-232 Applications

Product Description

24 AWG stranded (7x32) tinned copper conductors, 15 conductors cabled, PE insulation, overall Beldfoil® shield (100% coverage), 24 AWG stranded tinned copper drain wire, LSZH jacket, Flame resistance IEC 60332-3-24

Technical Specifications

Product Overview

Environmental Space:	Indoor - Euroclass Dca
Suitable Applications:	Instrumentation and computer cable; For EIA RS-232 data transmission applications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Conductors
24	7x32	TC - Tinned Copper	15

Conductor Count:	15
Total Number of Pairs:	0

Insulation

Material	Nominal Diameter	Diameter +/- Tolerance
Polyethylene	1.12 mm	0.05 mm

Color Chart

Number	Color
Wire 1 (central)	Black
Wire 2 (central)	White
Wire 3 (central)	Red
Wire 4 (central)	Green
Wire 5	Orange
Wire 6	Blue
Wire 7	Black/White
Wire 8	Black/Red
Wire 9	Black/Green
Wire 10	Black/Orange
Wire 11	Black/Blue
Wire 12	Black/White
Wire 13	White/Red
Wire 14	White/Green
Wire 15	White/Blue

Outer Shield Material

Type	Material	Material Trade Name	Thickness of Foil	Drainwire Material	Drainwire AWG
Tape	Aluminum/Polyester	Beldfoil®	9 / 23 µm	TC - Tinned Copper	AWG24/7

Outer Jacket Material

Material	Nominal Diameter	Min. Wall Thickness	Min. Average Wall Thickness
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LSZH / FRNC	7.4 mm	0.65 mm	0.80 mm
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Construction and Dimensions

Cabling

Description	Filler
1 center filler and 15 wires twisted to cable core	Cotton (White)

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
82 Ohm/km	59.1 Ohm/km

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
98 pF/m	180 pF/m

Impedance

Frequency [MHz]	Nominal Characteristic Impedance
N/A	75 Ohm

Current

Element	Max. Recommended Current [A]
Conductor	1.75 A

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:	IEC 60811-404
Max Recommended Pulling Tension:	360 N
Min Bend Radius During Installation:	74 mm

Standards

CPR Euroclass:	Dca-s2,d1,a1
CENELEC Compliance:	EN 50290-2-27

Applicable Environmental and Other Programs

EU RoHS Compliance Date (yyyy-mm-dd):	2005-01-01
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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
9541NH.001000	Chrome	1,000 m
9541NH.00500	Chrome	500 m

History

Update and Revision:	Revision Number: 0.149 Revision Date: 02-14-2020
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