




Product: [9541NH](#) 

RS-232, 15C #24 Str TC, PO ins, OS, LSZH Jkt, 300V, Dca

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

Suitable Applications:	Instrumentation and computer cable; For EIA RS-232 data transmission applications
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Physical Characteristics (Overall)

Conductor

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

Conductor Count:	15
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Insulation

Material	Nominal Diameter	Diameter +/- Tolerance
PE - 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

Type	Material	Material Trade Name	Thickness of Foil	Drainwire Material	Drainwire AWG
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	9 / 23 µm	TC - Tinned Copper	AWG24/7

Outer Jacket

Material	Nominal Diameter	Min. Wall Thickness	Min. Average Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	7.4 mm	0.65 mm	0.80 mm

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(s)	1.75 Amps per Conductor

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
Max. Pull Tension:	360 N
Min. Bend Radius During Installation:	74 mm

Standards

CPR Euroclass:	Dca-s2,d1,a1
CENELEC Compliance:	EN 50290-2-20

Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass Dca
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Flammability, LSOH, 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
IEC 61034-2 - Smoke Density Min. Transmittance:	60%

Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	EAN
9541NH.00500	Chrome	Reel	500 m	8719605022202
9541NH.001000	Chrome	Reel	1,000 m	8719605022196

History

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