



**Product:** [9501NH](#) 

RS-232, 1PR #24 Str TC, PO ins, OS, LSZH Jkt, 300V, Dca

## Product Description

24 AWG stranded (7x32) TC conductors, PE insulation, twisted pairs, overall Beldfoil shield (100% coverage), 24 AWG stranded TC drain Wire, LSZH jacket, Flame resistance IEC 60332-3C

## 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 Pairs
24	7x32	TC - Tinned Copper	1

Conductor Count:	2
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#### Insulation

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

#### Color Chart

Number	Color
Pair 1	Black & Red

#### Outer Shield

Type	Material	Material Trade Name	Thickness of Foil	Drainwire Material	Drainwire AWG
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	9 / 12 µm	TC - Tinned Copper	AWG24/7

#### Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	4.15 mm	0.9 mm

### Electrical Characteristics

#### Conductor DCR

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

#### Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
131.2 pF/m	242.8 pF/m

#### Impedance

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

#### Current

Element	Max. Recommended Current [A]

Conductor(s)	2.2 Amps per Conductor
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## 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:	50 N
Min. Bend Radius During Installation:	41.5 mm

## Standards

CPR Euroclass:	Dca-s1,d1,a1
CENELEC Compliance:	EN 50290-2-27

## Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass Dca
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## Suitability

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

IEC Flammability:	IEC 60332-1-2 and 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
9501NH.00152	Chrome	Reel	152 m	8719605020819
9501NH.00305	Chrome	Reel	305 m	8719605020826
9501NH.00500	Chrome	Reel	500 m	8719605020833
9501NH.001000	Chrome	Reel	1,000 m	8719605020802

## History

Update and Revision:	Revision Number: 0.207 Revision Date: 04-08-2022
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