



Product: 9502NH ☑

RS-232, 2PR #24 Str TC, PO ins, OS, LSZH Jkt, 300 V

# **Product Description**

2-Pair, 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 application	
Phys	ical Char	acteristics (Ove	erall)	
Condu	ctor			
AWG	Stranding	Material	No. of Pairs	
24	7x32	TC - Tinned Copper	2	
Condu	ctor Count:			4
nsulat	ion			
M	aterial	Nominal Diameter	Diameter +/- Toler	ance
	olyethylene	1.12 mm	0.05 mm	

Number	Color
Pair 1	Black & Red
Pair 2	Black & White

# 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)	5.8 mm	0.9 mm

# **Construction and Dimensions**

### Cabling

Description

2 pairs twisted to cable core

# **Electrical Characteristics**

# Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
78.7 Ohm/km	55.8 Ohm/km

# Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
98.4 pF/m	164 pF/m

#### Impedance

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

#### Current

Element	Max. Recommended Current [A]
Conductor(s)	1.76 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:	100 N
Min. Bend Radius During Installation:	58 mm

#### **Standards**

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

# **Applicable Environmental and Other Programs**

Environmental Space:	Indoor - Euroclass Dca	

#### 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
9502NH.00152	Chrome	Reel	152 m	8719605020987
9502NH.00305	Chrome	Reel	305 m	8719605020994
9502NH.00500	Chrome	Reel	500 m	8719605021007
9502NH.001000	Chrome	Reel	1,000 m	8719605020970

## **History**

Update and Revision:	Revision Number: 0.210 Revision Date: 04-08-2022

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