



Product: [9510NH](#) 

RS-232, 10PR #24 Str TC, PO ins, OS, LSZH Jkt, 300V

Product Description

10-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 applications
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
24	7x32	TC - Tinned Copper	10

Conductor Count:	20
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Insulation

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

Color Chart

Number	Color
Pair 1 (central)	Black & Red
Pair 2 (central)	Black & White
Pair 3	Black & Green
Pair 4	Black & Blue
Pair 5	Black & Yellow
Pair 6	Black & Brown
Pair 7	Black & Orange
Pair 8	Red & White
Pair 9	Red & Green
Pair 10	Red & 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	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	9.4 mm	0.85 mm

Construction and Dimensions

Cabling

Description
10 pairs twisted to cable core

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
78.7 Ohm/km	54.1 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)	1.1 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:	400 N
Min. Bend Radius During Installation:	94 mm

Standards

CPR Euroclass:	Eca
CENELEC Compliance:	EN 50290-2-20

Applicable Environmental and Other Programs

Environmental Space:	Indoor
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Suitability

Suitability - Sunlight Resistance:	Yes
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Flammability, LSOH, Toxicity Testing

IEC Flammability:	IEC 60332-3-24, IEC 60332-1-2
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
9510NH.00500	Chrome	Reel	500 m	8719605021656

History

Update and Revision:	Revision Number: 0.212 Revision Date: 12-22-2023
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