



**Product:** [9506NH](#)

RS-232, 6PR #24 Str TC, PO ins, OS, LSZH Jkt, 300V, Dca

Product Description

6-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	6

Conductor Count:	12
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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	Black & White
Pair 3	Black & Green
Pair 4	Black & Blue
Pair 5	Black & Yellow
Pair 6	Black & Brown

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)	7.5 mm	0.9 mm

Construction and Dimensions

Cabling

Description
6 pairs twisted to cable core

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
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78.7 Ohm/km	52.5 Ohm/km
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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)	1.5 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:	300 N
Min. Bend Radius During Installation:	75 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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Suitability

Suitability - Sunlight Resistance:	Yes
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Flammability, LS0H, 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
9506NH.00152	Chrome	Reel	152 m	8719605021427
9506NH.00305	Chrome	Reel	305 m	8719605021434
9506NH.00500	Chrome	Reel	500 m	8719605021441
9506NH.001000	Chrome	Reel	1,000 m	8719605021410

History

Update and Revision:	Revision Number: 0.216 Revision Date: 12-22-2023
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