



Product: 9506NH ☑

Computer Cable for EIA RS-232 Applications

# **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**

Environmental Space:	Indoor - Euroclass Dca
Suitable Applications:	Instrumentation and computer cable; For EIA RS-232 data transmission applications

# **Physical Characteristics (Overall)**

### Conductor

AWG	Stranding	Material	No. of Cond	uctors	No. of Pairs
24	7x32	TC - Tinned Copper	12		6
Condu	ctor Count:			12	
Total I	Number of Pa	airs:		6	

### Insulation

Material	Nominal Diameter	Diameter +/- Tolerance
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 Material

Type	Material	Material Trade Name	Thickness of Foil	Drainwire Material	Drainwire AWG
Tape	Aluminum/Polyester	Beldfoil®	9 / 23 µm	TC - Tinned Copper	AWG24/7

## Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
LSZH / FRNC (UV stabilised)	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
78.7 Ohm/km	52.5 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	1.5 A

### Voltage

Voltage Rating [V]
300 V

### **Temperature Range**

Installation Temp Range:	-15°C To +80°C
Storage Temp 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 Recommended Pulling Tension:	300 N
Min Bend Radius During Installation:	75 mm

## **Standards**

CPR Euroclass:	Dca-s2,d1,a1
CENELEC Compliance:	EN 50290-2-27

## **Applicable Environmental and Other Programs**

EU RoHS Compliance Date (yyyy-mm-dd):	2005-01-01

## Flammability, LS0H, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-1-2 and IEC 60332-3-24
Amount of Halogen acc. to IEC 60754-1 & EN50267-1:	Zero

## **Part Number**

### Variants

Item #	Color	Length
9506NH.001000	Chrome	1,000 m
9506NH.00152	Chrome	152 m
9506NH.00305	Chrome	305 m
9506NH.00500	Chrome	500 m
9506NH.K0305	Chrome	305 m

### **History**

Update and Revision:	Revision Number: 0.155 Revision Date: 02-14-2020

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