



**Product:** [9508NH](#)

Computer Cable for EIA RS-232 Applications

### Product Description

8-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	8

Conductor Count:	16
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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
Pair 7	Black & Orange
Pair 8	Red & White

##### Outer Shield Material

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

Material	Nominal Diameter	Min. Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	8.4 mm	0.9 mm

#### Construction and Dimensions

##### Cabling

Description	Filler
1 filler and 8 pairs twisted to cable core	Polypropylene (White, 1.90 mm)

#### Electrical Characteristics

## Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
78.7 Ohm/km	54.1 Ohm/km

## Capacitance

Max. 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	1.1 Amps per Conductor

## 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. Pull Tension:	400 N
Min Bend Radius During Installation:	84 mm

## Standards

CPR Euroclass:	Dca-s2,d2,a1
CENELEC Compliance:	EN 50290-2-27

## Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass Dca
EU RoHS Compliance Date (yyyy-mm-dd):	2005-01-01

## Suitability

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

IEC Flammability:	IEC 60332-1-2 and IEC 60332-3-24
IEC 60754-1 (EN50267-1)- Halogen Amount:	Zero
IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Max. Conductivity:	2.5 µS/mm
IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Min. pH:	4.3
IEC 61034-2 (EN 61034-2) (VDE 0482-1034) - Smoke Density Min. Transmittance:	IEC 61034-2

## Part Number

### Variants

Item #	Color	Putup Type	Length	EAN
9508NH.00500	Chrome	Reel	500 m	8719605021588
9508NH.001000	Chrome	Reel	1,000 m	8719605021571

## History

Update and Revision:	Revision Number: 0.182 Revision Date: 06-24-2020
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