




**Product:** [9538NH](#) 

Life Cycle Status: Capability

RS-232, 8C #24 Str TC, PO ins, OS, LSZH Jkt, 300V

## Product Description

24 AWG stranded (7x32) tinned copper conductors, 8 conductors cabled, PP insulation, overall Beldfoil® shield (100% coverage), 24 AWG stranded tinned copper drain wire, LSZH jacket, Flame resistance IEC 60332-1-2

## Technical Specifications

### Product Overview

Suitable Applications: Instrumentation and computer cable; For EIA RS-232 data transmission applications

### Physical Characteristics (Overall)

#### Conductor

AWG	Material	No. of Conductors
24	TC - Tinned Copper	8

Conductor Count: 6

#### Insulation

Diameter +/- Tolerance
0.05 mm

#### Color Chart

Number	Color
Wire 1	Black
Wire 2	White
Wire 3	Red
Wire 4	Green
Wire 5	Brown
Wire 6	Blue
Wire 7	Orange
Wire 8	Yellow

#### Outer Shield

Material Trade Name	Thickness of Foil	Drainwire Material	Drainwire AWG
Beldfoil®	9 / 12 µm	TC - Tinned Copper	AWG24/7

### Construction and Dimensions

#### Cabling

Description
8 wires twisted to cable core

### Electrical Characteristics

#### Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
108.3 pF/m	213.3 pF/m

## Impedance

### Frequency [MHz]

N/A

## Current

### Element Max. Recommended Current [A]

Conductor(s) 1.75 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: 200 N

Min. Bend Radius During Installation: 57 mm

## Standards

CPR Euroclass: Dca-s2,d1,a1

CENELEC Compliance: EN 50290-2-20

## Applicable Environmental and Other Programs

Environmental Space: Indoor/Outdoor - Euroclass Dca

## Suitability

Suitability - Indoor: Yes

Suitability - Non-Halogenated: Yes

Suitability - Sunlight Resistance: Yes

## Flammability, LSOH, Toxicity Testing

IEC Flammability: 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%

## Product Notes

Notes: This is a preliminary Technical Design Specification (TDS). The minimum business quantity to offer is 6km for the first order. This product will have Chrome as standard color and 305mt as standard put-ups. Additional options for colors and put-ups are available on special request. The estimated production lead time for the first order will be similar to the production lead time of 9536NH. Please liaise with your Belden representative for confirmation.

## History

Update and Revision: Revision Number: 0.5 Revision Date: 07-23-2024

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