



**Product:** [9504NH](#)

RS-232, 4PR #24 Str TC, PO ins, OS, LSZH Jkt, 300V, Dca

### Product Description

4-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
------------------------	---

#### Physical Characteristics (Overall)

##### Conductor

AWG	Stranding	Material	No. of Pairs
24	7x32	TC - Tinned Copper	4

Conductor Count:	8
------------------	---

##### Insulation

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

##### Color Chart

Number	Color
Pair 1	Black & Red
Pair 2	Black & White
Pair 3	Black & Green
Pair 4	Black & 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)	6.9 mm	0.9 mm

#### Construction and Dimensions

##### Cabling

Description
4 pairs twisted to cable core

#### Electrical Characteristics

##### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
78.7 Ohm/km	55.8 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]
N/A

## 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:	200 N
Min. Bend Radius During Installation:	69 mm

## Standards

CPR Euroclass:	Dca-s1,d1,a1
CENELEC Compliance:	EN 50290-2-20

## Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass Dca
----------------------	------------------------

## Suitability

Suitability - Sunlight Resistance:	Yes
------------------------------------	-----

## 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
9504NH.00152	Chrome	Reel	152 m	8719605021212
9504NH.00305	Chrome	Reel	305 m	8719605021229
9504NH.00500	Chrome	Reel	500 m	8719605021236
9504NH.001000	Chrome	Reel	1,000 m	8719605021205

## History

Update and Revision:	Revision Number: 0.220 Revision Date: 04-30-2024
----------------------	--

© 2024 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.