
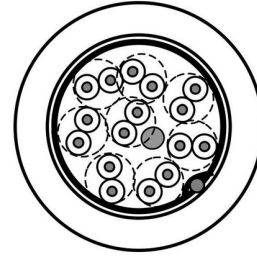


**Product:** [9508NH](#) 

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

|                        |   |
|------------------------|---|
| 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 Conductors | No. of Pairs |
|-----|-----------|--------------------|-------------------|--------------|
| 24  | 7x32      | TC - Tinned Copper | 16                | 8            |

|                        |    |
|------------------------|----|
| Conductor Count:       | 16 |
| Total Number of Pairs: | 8  |

##### 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  |
| Pair 7           | Black & Orange |
| Pair 8           | Red & White    |

##### 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 | Min. Wall Thickness |
|-----------------------------|------------------|---------------------|
| LSZH / FRNC (UV stabilised) | 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 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:     | 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

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

## Flammability, LSOH, 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  |
|---------------|--------|---------|
| 9508NH.001000 | Chrome | 1,000 m |
| 9508NH.00500  | Chrome | 500 m   |

## History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.163 Revision Date: 02-14-2020 |
|----------------------|--|

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