



Part Number: 9504NH

Computer Cable for EIA RS-232 Applications

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

| | |
|------------------------|---|
| 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 | 8 | 4 |

| | |
|------------------------|--------|
| Conductor Count: | 8 |
| Total Number of Pairs: | 4 |
| Conductor Size: | 24 AWG |

Insulation

| Material | Nominal Diameter | Diameter +/- Tolerance |
|--------------|------------------|------------------------|
| 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 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 | Color | Nominal Diameter | Nominal Wall Thickness |
|-----------------------------|-------------------|------------------|------------------------|
| LSZH / FRNC (UV stabilised) | Chrome (RAL 7037) | 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] | 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: | 200 N |
| Min Bend Radius During Installation: | 69 mm |

Standards

| | |
|---------------------|---------------|
| CPR Euroclass: | Dca-s1,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 60332-3-24 |
| Amount of Halogen acc. to IEC 60754-1 & EN50267-1: | Zero |

Part Number

Variants

| Item # | Color |
|---------------|--------|
| 9504NH.001000 | Chrome |
| 9504NH.001152 | Chrome |
| 9504NH.00305 | Chrome |
| 9504NH.00500 | Chrome |

History

| | |
|------------------|---|
| Revision Number: | 7 |
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