



Product: 9503NH ☑

RS-232, 3PR #24 Str TC, PO ins, OS, LSZH Jkt, 300V

Product Description

3-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 application |
|------------------------------------|--------------|--------------------|-------------------|--|
| Physical Characteristics (Overall) | | | | |
| Conductor | | | | |
| AWG | Stranding | Material | No. of Pairs | |
| 24 | 7x32 | TC - Tinned Copper | 3 | |
| Cond | uctor Count: | | | 6 |
| Insulation | | | | |
| N | laterial | Nominal Diameter | Diameter +/- Tole | rance |
| | Polyethylene | 1.12 mm | 0.05 mm | |

| Number | Color |
|--------|---------------|
| Pair 1 | Black & Red |
| Pair 2 | Black & White |
| Pair 3 | Black & Green |

Outer Shield

| Type | Material | Material Trade Name | Thickness of Foil | Drainwire Material | Drainwire AWG |
|------|-------------------------|---------------------|-------------------|--------------------|---------------|
| Tape | Bi-Laminate (Alum+Poly) | Beldfoil® | 9 / 12 µm | TC - Tinned Copper | AWG24/7 |

Outer Jacket

| Material | Nominal Diameter | Nominal Wall Thickness |
|---|------------------|------------------------|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 6.07 mm | 0.9 mm |

Construction and Dimensions

Cabling

Description

3 pairs twisted to cable core

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Inner 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(s) | 1.76 Amps per Conductor |

Voltage

Voltage Rating [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: | 150 N |
| Min. Bend Radius During Installation: | 60.7 mm |

Standards

| CPR Euroclass: | Dca-s1,d1,a1 |
|---------------------|---------------|
| CENELEC Compliance: | EN 50290-2-27 |

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 and 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 |
|---------------|--------|-------------|---------|---------------|
| 9503NH.01500 | Blue | Reel | 500 m | 8719605021120 |
| 9503NH.00152 | Chrome | Reel | 152 m | 8719605021090 |
| 9503NH.00305 | Chrome | Reel | 305 m | 8719605021106 |
| 9503NH.00500 | Chrome | Reel | 500 m | 8719605021113 |
| 9503NH.001000 | Chrome | Reel | 1,000 m | 8719605021083 |
| 9503NH.01200 | Orange | Reel | 200 m | 8719605189233 |
| 9503NH.01250 | Orange | Reel | 250 m | 8719605187079 |

History

| Update and Revision: Revision Number: 0.221 Revision Date: 04-08-2022 | Upd | | |
|---|-----|--|--|
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