



Product: [9842NH](#)

RS-485, 2 Pr #24 Str TC, PO Ins, OS+TC Brd, LSZH Jkt, Dca

### Product Description

RS-485, 2 Pair 24AWG (7x32) Tinned Copper, PO Insulation, Overall Beldfoil®+Tinned Copper Braid(90%) Shield, LSZH Outer Jacket, CPR Dca

### Technical Specifications

#### Product Overview

Suitable Applications:	RS-485, POS; Computer communications; Low Voltage Analog Signals (4-20ma, 0-10v, ...); Low Voltage Digital Control (24v, ...); Line Level Audio; Panel Wiring; serial communication (RS-485 standard) comprising of PLCs, VFDs, HMIs, motors, RTU, SCADA, etc. within noisy environments over long distance, etc.
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#### Construction Details

##### Conductor

Size	Stranding	Material
24	7x32	TC - Tinned Copper

##### Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene	1.73 mm (0.0681 in)	White/Blue & Blue/White, White/Orange & Orange/White

##### Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC
Braid	Tinned Copper (TC)	90%	

##### Outer Jacket

Material	Nom. Thickness	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	0.9 mm (0.035 in)	8.65 mm (0.341 in)

Table Notes:	UV Stabilised
Overall Cable Diameter (Nominal):	8.65 mm (0.341 in)

#### Electrical Characteristics

##### Electricals

Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedance	Nom. Velocity of Prop.	Max. Current
78.7 Ohm/km (24.0 Ohm/1000ft)	42 pF/m (13 pF/ft)	75.5 pF/m	120 Ohm	66%	2.1 Amps per Conductor
Nom. Outer Shield DCR: 7.2 Ohm/km (2.2 Ohm/1000ft)					

##### High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss (Attenuation)
1	1.97 dB/100m

#### Mechanical Characteristics

##### Temperature

Operating	Installation	Storage
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-45°C To +80°C   -15°C To +80°C   -45°C To +80°C

**Bend Radius**

Stationary Min.	Installation Min.
43 mm (1.7 in)	86 mm (3.4 in)

Max. Pull Tension:	395 N (88.8 lbf)
Bulk Cable Weight:	49 lbs/1000ft

**Standards and Compliance**

Environmental Suitability:	Indoor - Euroclass Dca, Indoor, Non-Halogenated, Sunlight Resistance, Oil Resistance
Flammability / Reaction to Fire:	IEC 60332-1-2, IEC 60332-3-24
CPR Compliance:	CPR Euroclass: Dca-s2,d2,a1; CPR UKCA Class: Dca-s2,d2,a1
ISO/IEC Compliance:	IEC 61034-2 - Smoke Density Min Transmittance = 60%
CENELEC Compliance:	EN 50290-2-20
European Halogen Free Standards:	IEC 62821-1 Halogen Free Compliance = Yes, 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
European Directive Compliance:	EU CE Mark
UK Regulation Compliance:	UKCA Mark

**History**

Update and Revision:	Revision Number: 0.471 Revision Date: 12-22-2023
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**Part Numbers**

**Variants**

Item #	Color	Putup Type	Length	UPC/EAN	Footnote
9842NH.02500	Black	Reel	500 m	8719605023308	
9842NH.02520	Black	Reel	520 m	8719605172129	
9842NH.021000	Black	Reel	1,000 m	8719605155405	
9842NH.022500	Black	Reel	2,500 m	8719605023292	
9842NH.00152	Chrome	Reel	152 m	8719605023230	
9842NH.00305	Chrome	Reel	305 m	8719605023254	
9842NH 060500	Chrome	Reel	500 ft	612825259572	
9842NH.00500	Chrome	Reel	500 m	8719605023261	
9842NH 0601000	Chrome	Reel	1,000 ft	612825259565	C
9842NH 0601000	Chrome	Reel	1,000 ft	612825259565	C
9842NH.001000	Chrome	Reel	1,000 m	8719605023223	
9842NH.002500	Chrome	Reel	2,500 m	8719605023247	
9842NH.01305	White	Reel	305 m	8719605023285	
9842NH.01500	White	Reel	500 m	8719605184795	
9842NH.011000	White	Reel	1,000 m	8719605023278	

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