



Product: <u>9842NH</u> ☑

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

Product Description

RS-485, 2 Pair, 24 AWG stranded (7x32) Tinned Copper conductors, Polyethylene insulation, twisted pairs, overall Beldfoil® (100% coverage) + Tinned Copper braid shield (90% coverage), 24 AWG stranded Tinned Copper drain wire, LSZH 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.

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	2	24 AWG	7x32	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PE - Polyethylene	0.56 mm (0.022 in)	1.73 mm (0.0681 in)	White/Blue & Blue/White, White/Orange & Orange/White

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Таре	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)
Overall Cable Diameter (Nominal):	8.65 mm (0.341 in)		

Electrical Characteristics

Electricals

Element Nom. Conductor DCR		Nom. Capacitance Cond-to-Cond			Nom. Delay	Nom. Velocity of Prop.	Max. Current
Pair(s) 78.7 Ohm/km (24.0 Ohm/1000ft)		42 pF/m (13 pF/ft)	75.5 pF/m (23.0 pF/ft)	120 Ohm	5.2 ns/m	66%	2.1 Amps per Conductor
Nom Outer Shield 7.2 Ohm/kn		0hm/km (2.2 Ohm/1000ft)					

High Frequency (Nominal/Typical)

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

Voltage

Voltage Rating

Mechanical Characteristics

Temperature

Operating	Installation	Storage	
-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)	ĺ
Bulk Cable Weight:	97 kg/km (65 lbs/1000ft)	ı

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
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, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2)
UK Regulation Compliance:	UKCA Mark
Other Standard Compliance(s):	DMX-512

History

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	С
9842NH 0601000	Chrome	Reel	1,000 ft	612825259565	С
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	
Footnote: C - CRATE REEL PUT-UP.					

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