



Product: 9841NH ☑

RS-485, 1 Pr #24 Str TC, PO Ins, OS+TC Brd, LSZH Jkt, Dca

Request Sample

Product Description

RS-485, 1 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.

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

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

Mate	erial	Nom. Thickness	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant		0.9 mm (0.035 in)	6.10 mm (0.240 in)
Table Notes:	UV Stabilised		
Overall Cable Diameter (Nominal):	6.10 mm (0.240 in)		

Electrical Characteristics

Electricals

Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedence	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 DCP: 11.0 Ohm/km /3.35 Ohm/1000ft)						

High Frequency (Nominal/Typical)

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

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.		
30 mm (1.2 in)	61 mm (2.4 in)		

Max. Pull Tension:	328 N (73.7 lbf)
Bulk Cable Weight:	33 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor - Euroclass Dca, Indoor, Non-Halogenated, Sunlight Resistance, Oil Resistance		
Flammability / Reaction to Fire:	IEC 60332-3-22, IEC 60332-3-24		
CPR Compliance:	CPR Euroclass: Dca-s2,d1,a1; CPR UKCA Class: Dca-s2,d1,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		
Other Standard Compliance(s):	DMX-512		

History

	D 11 N 4 0700 D 11 D 4 00 00 0004
Update and Revision:	Revision Number: 0.730 Revision Date: 06-28-2024

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC/EAN	Footnote
9841NH.00152	Chrome	Reel	152 m	8719605022929	
9841NH.00305	Chrome	Reel	305 m	8719605022936	
9841NH.00500	Chrome	Reel	500 m	8719605022943	
9841NH 0601000	Chrome	Reel	1,000 ft	612825259497	С
9841NH 0601000	Chrome	Reel	1,000 ft	612825259497	С
9841NH.001000	Chrome	Reel	1,000 m	8719605022912	

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