





RS485, 4 Pr #24 Str TC, PE Ins, OS+TC Brd, LSZH Jkt, Eca

Product Description

4-Pair, 24 AWG stranded (7x32) TC conductors, polyethylene insulation, twisted pairs, overall Beldfoil® (100% coverage) + TC braid shield (90% coverage), 24 AWG stranded TC drain wire, LSZH jacket, Flame resistance IEC 60332-3C

Technical Specifications

Product Overview

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	3	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, White/Green & Green/White, White/Brown & Brown/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

		Nom. Thickness	Nom. Diameter
LSZH - Low Smoke Zero H	LSZH - Low Smoke Zero Halogen (Flame Retardant)		9.9 mm (0.39 in)
Overall Cable Diameter (Nominal):	9.90 mm (0.390 in)		

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedence	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	120 Ohm	66%	2.1 Amps per Conductor
Nom. Out	Nom. Outer Shield DCR: 6.9 Ohm/km (2.1 Ohm/1000ft)					

High Frequency (Nominal/Typical)

Element	Frequency [MHz]	Nom. Insertion Loss (Attenuation)
Pair(s)	1	1.97 dB/100m (0.600 dB/100ft)

Voltage



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.	
50 mm (2.0 in)	99 mm (3.9 in)	

Max. Pull Tension:	500 N (110 lbf)
Bulk Cable Weight:	112 kg/km (75.3 lbs/1000ft)

Standards and Compliance

Environmental Suitability:	Indoor - Euroclass Eca, Indoor, Non-Halogenated, Sunlight Resistance, Oil Resistance	
Flammability / Reaction to Fire:	IEC 60332-1-2, IEC 60332-3-24	
CPR Compliance:	CPR Euroclass: Eca	
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

Update and Revision:	Revision Number: 0.515 Revision Date: 04-08-2025

Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
9844NH.011000	Black	Reel	1,000 m	8719605155733
9844NH.012000	Black	Reel	2,000 m	8719605145284
9844NH.00305	Chrome	Reel	305 m	8719605023452
9844NH.00500	Chrome	Reel	500 m	8719605023469
9844NH.001000	Chrome	Reel	1,000 m	8719605023445

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