



Product: [3107ENH](#)

RS-485, 2 Pr #22 Str TC, PO ins, F/B, LSNH Jkt

Product Description

RS-485, 2 Pair 22 AWG Tinned Copper - Stranded, Polyolefin (PO, PE, PP) insulation, Foil + Braid(s) shielding, LSZH / FRNC jacket ,

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
22	7x30	TC - Tinned Copper

Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene (Foam)	2.04 mm (0.0803 in)	White/Blue & Blue/White, White/Orange & Orange/White

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	22 AWG (7x30) TC
Braid	Tinned Copper (TC)	65%	

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	1.35 mm (0.0531 in)	8.9 mm (0.35 in)

Table Notes:	UV Stabilised
Overall Cable Diameter (Nominal):	8.9 mm (0.35 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
48.2 Ohm/km (14.7 Ohm/1000ft)	36.1 pF/m (11.0 pF/ft)	68.6 pF/m	120 Ohm	78%	2.7 Amps per Conductor
Nom. Outer Shield DCR: 5.9 Ohm/km (1.8 Ohm/1000ft)					

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss (Attenuation)
1	1.64 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.
45 mm (1.8 in)	89 mm (3.5 in)

Max. Pull Tension: 290 N (65 lbf)

Standards and Compliance

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

History

Update and Revision: Revision Number: 0.370 Revision Date: 12-22-2023

Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
3107ENH.00305	Black	Reel	305 m	8719605005977
3107ENH.K0305	Black	Reel	305 m	8719605188755
3107ENH.001000	Black	Reel	1,000 m	8719605174185
3107ENH.01500	Orange	Reel	500 m	8719605192486

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