



Product: [3106ENH](#) 

RS-485, 1.5Pr #22 Str TC, PO ins, F/B, LSNH Jkt,Eca

Product Description

RS-485, 1.5 Pair AWG 22 Tinned Copper - Stranded, Polyolefin (PO, PE, PP) insulation, Foil + Braid(s) shielding, LSZH / FRNC jacket ,Eca

Technical Specifications

Product Overview

Suitable Applications:	Instrumentation and computer cable. For EIA RS-485 transmissions applications
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Conductors
22	7x30	TC - Tinned Copper	3

Conductor Count:	3
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Insulation

Element	Material	Nominal Diameter	Diameter +/- Tolerance
Wire 1 & 3	PE - Polyethylene (Foam)	1.73 mm	0.05 mm
Additional Wire 2	PE - Polyethylene	1.57 mm	

Color Chart

Number	Color
wire 1	White & Orange
wire 2	Orange & White
wire 3	Blue & White

Outer Shield

Type	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	1	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	22
Braid	2	Tinned Copper (TC)		65%		

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	7.6 mm	1 mm

Table Notes:	UV Stabilised
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Construction and Dimensions

Cabling

Description
2 wires + 1 additional wire + tinned copper drainwire (AWG22)

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
48.2 Ohm/km	9.2 Ohm/km

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
36.1 pF/m	68.6 pF/m

Impedance

Frequency [MHz]	Nominal Impedance
1 MHz	120 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	1.68 dB/100m

Delay

Nominal Velocity of Propagation (VP) [%]
78%

Current

Max. Recommended Current [A]
2.7 Amps per Conductor

Voltage

Voltage Rating [V]
300 V

Temperature Range

Installation Temperature Range:	-15°C To +80°C
Storage Temperature Range:	-45°C To +80°C
Operating Temperature Range:	-15°C To +80°C
Operating Temp Range (Fixed Install):	-45°C To +80°C

Mechanical Characteristics

Oil Resistance:	IEC 60811-404
Max. Pull Tension:	290 N
Min Bend Radius (W/o Pulling Strength):	76 mm

Standards

CPR Euroclass:	Eca
CENELEC Compliance:	EN 50290-2-20

Applicable Environmental and Other Programs

Environmental Space:	Indoor
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Flammability, LSOH, Toxicity Testing

IEC Flammability:	IEC 60332-1-2
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
IEC 61034-2 - Smoke Density Min. Transmittance:	60%

Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	EAN
3106ENH.00305	Black	Reel	305 m	8719605005922

History

Update and Revision:	Revision Number: 0.221 Revision Date: 02-23-2023
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