



**Product:** [3107ELV](#)

RS-485, 2PR #22 Str TC, PO ins, F/B, LSNH Jkt, B2ca

## Product Description

RS-485, 2 Pair AWG 22 Tinned Copper - Stranded, Polyolefin (PO, PE, PP) insulation, Foil + Braid(s) shielding, LSZH / FRNC jacket , CPR B2ca

## 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 Pairs
22	7x30	TC - Tinned Copper	2

Conductor Count:	4
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#### Insulation

Material	Nominal Diameter	Diameter +/- Tolerance	Nominal Wall Thickness
PE - Polyethylene (Foam)	2.04 mm	0.05 mm	0.65

#### Color Chart

Number	Color
wire 1	White & Orange
wire 2	Orange & White
wire 3	White & Blue
wire 4	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	Color	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	Black	8.9 mm	1.35 mm

## Construction and Dimensions

### Cabling

Description
2 pairs + tinned copper drainwire (AWG22)

## Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
48.2 Ohm/km	5.9 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 Characteristic Impedance
1 MHz	120 Ohm

## High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	1.64 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 During Installation:	89 mm

## Standards

CPR Euroclass:	B2ca-s1,d1,a1
CENELEC Compliance:	EN 50290-2-20
Other Specification:	DMX-512

## Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass B2ca
EU CE Mark:	Yes

## Suitability

Suitability - Non-Halogenated:	Yes
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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
3107ELV.00500	Black	Reel	500 m	8719605192301

## History

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