



# Product: <u>9842LV</u> I

RS485, 2 Pr #24 Str TC, PO Ins, OS+TC Brd, LSZH Jkt, B2ca

## Product Description

RS-485, 2 Pair 24AWG (7x32) Tinned Copper, PO Insulation, Overall Beldfoil®+Tinned Copper Braid(90%) Shield, LSZH Outer Jacket, CPR B2ca

## **Technical Specifications**

### **Product Overview**

Construction								
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Conductor								
Element No. of	Elements Size	Stranding	Material					
Pair(s) 2	24 AWG	7x32	TC - Tinned Copper					

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

### 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 H	lalogen (Flame Retardant)	1.0 mm (0.039 in)	8.40 mm (0.331 in)
Overall Cable Diameter (Nominal):	8.40 mm (0.331 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. Ou	Nom. Outer Shield DCR: 7.2 Ohm/1000ft (24 Ohm/km)							

### High Frequency (Nominal/Typical)

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

## Voltage

Voltage Rating				
300 V				

## **Mechanical Characteristics**

Operating	Installation	Storage	
-45°C To +80°C	-15°C To +80°C	-45°C To +80°C	

#### Bend Radius

Stationary Min.	Installa	tion Min.
44 mm (1.7 in)	88 mm (	3.5 in)
Max. Pull Tensio	on:	395 N (88
Bulk Cable Weight: 96 kg/km		96 kg/km (

### **Standards and Compliance**

Environmental Suitability:	Indoor - Euroclass B2ca, Indoor, Non-Halogenated, Sunlight Resistance, Oil Resistance			
Flammability / Reaction to Fire:	IEC 60332-1-2			
CPR Compliance:	CPR Euroclass: B2ca-s1a,d1,a1			
ISO/IEC Compliance:	IEC 61034-2 - Smoke Density Min Transmittance = 80%			
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: 0.82 Revision Date: 04-07-2025

### **Part Numbers**

#### Variants

Item #	Color	Putup Type	Length	EAN
9842LV.001000				
9842LV.00305				
9842LV.01500				
9842LV.02305				
9842LV.00500	Chrome	Reel	500 m	8719605179982

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