

# Belden 9842 - LSZH 300V (Belden Alternative) Cable



Eland Product Group: **A3B**

## APPLICATION

Belden 9842 - LSZH (Belden Alternative) cable is a 24 AWG low capacitance cable with a high level of screening. Provides interference free, high speed data transmission suitable for RS485 applications. For installations where fire, smoke emissions and toxic fumes create a potential risk to life and equipment.

## CONSTRUCTION

### Conductor

Class 2 stranded tinned copper conductor

### Inner Sheath

PE (Polyethylene)

### Screen

Aluminium polyester foil

### Drain Wire

Tinned copper

### Braid

TCWB (Tinned Copper Wire Braid)

### Sheath

LSZH (Low Smoke Zero Halogen)

## CABLE STANDARDS

Generally to Belden 9842 LSZH, RS485



The electrical and dimensional properties of this product are measured by the Technical and Quality Assurance department at the Eland Cables laboratory. Cable performance in respect of conductor resistance, construction quality (workmanship), dimensional consistency, and other parameters are verified to published standards and approved product drawings. Conformance to RoHS (Restriction of the use of Hazardous Substances) is determined and confirmed.

## CHARACTERISTICS

### Voltage Rating

300V

### Temperature Rating

Fixed: -20°C to +70°C

### Core Identification

Pair 1: ● Blue/White ● White/Blue

Pair 2: ● Orange/White ● White/Orange

### Sheath Colour

● Grey

## DIMENSIONS

ELAND PART NO.	BELDEN ALTERNATIVE	NO. OF PAIRS	AWG (NO. OF STRANDS)	NOMINAL DIAMETER OF STRANDS mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A3B9842LSZH	9842LSZH	2	AWG24(7)	0.2	7.4	92

## ELECTRICAL CHARACTERISTICS

VELOCITY OF PROPAGATION %	IMPEDANCE ohms	CAPACITANCE AT 1kHz	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
66	120	42	86.2

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.