

Belden 9841 - LSZH 600V (Belden Alternative) Cable



Eland Product Group: **A3B**

APPLICATION

Belden 9841 LSZH (Belden Equivalent) 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

Insulation

HDPE (High Density 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; 9841 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

600V

Temperature Rating

Fixed: -40°C to +80°C

Core Identification

Pair 1: Blue/White White/Blue

Sheath Colour

Violet

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
A3B9841NH600V	9841LSZH	1	AWG24(7)	0.2	5.9	54

ELECTRICAL CHARACTERISTICS

VELOCITY OF PROPAGATION %	IMPEDANCE ohms	CAPACITANCE		MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
		Conductor to Conductor pF/m	Conductor to Shield pF/m	
66	120	42	75.46	84.8

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.