



Profibus DP LSZH SWB Cable



Eland Product Group: A8P

APPLICATION

A 1 pair LSZH (Low Smoke Zero Halogen) Profibus DP cable with a steel wire braid for additional mechanical support. For use on process and fieldbus communications.

CHARACTERISTICS

Voltage Rating

300V (Not for power purposes)

Temperature Rating

Fixed: -40°C to +80°C

Minimum Bending Radius

10 x overall diameter

CONSTRUCTION

Conductor

Class 1 solid copper conductor

Insulation

Foam-skin PE (Polyethylene)

Separation

PET (Polyester Tape)

Filler

HFFR (Halogen Free Flame Retardant) compound

Shield 1

Al/PET (Aluminium/Polyester Tape)

Shield 2

TCWB (Tinned Copper Wire Braid)

Inner Sheath

LSZH (Low Smoke Zero Halogen)

Armour

GSWB (Galvanized Steel Wire Braid)

Sheath

LSZH (Low Smoke Zero Halogen)

Core Identification

● Green ● Red

Inner Sheath Colour

● Violet

Outer Sheath Colour

● Black

STANDARDS

IEC/EN61158,

Flame Retardant according to IEC/EN 60332-1-2

Low Smoke Zero Halogen according to IEC/EN 60754-1/2,

IEC/EN 61034-1/2



THE CABLE LAB[®]

AN ISO/IEC 17025 AND IECEE CBTL ACCREDITED FACILITY

Our world-class testing facility assures the quality and compliance of this cable through a continuous and rigorous testing regime.



SUSTAINABILITY COMMITMENT

We are on a journey to Net Zero.

We've committed to near-term emissions reductions and a net-zero target with the Science Based Targets initiative and we're a signatory to the United Nations Global Compact Sustainable Development Goals.

Learn more about embodied carbon and our carbon emissions reduction actions, our comprehensive recycling services, and wider ESG activities for sustainable operations at: www.elandcables.com/company/about-us/esg-sustainability



REGULATORY COMPLIANCE

This cable is compliant with European Regulation EN 50575, the Construction Products Regulation.



This cable meets the requirements of the Low Voltage Directive 2014/35/EU, the RoHS Directive 2015/65/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab[®].





DIMENSIONS

ELAND PART NO.	NO. OF PAIRS	DIAMETER OF CONDUCTOR mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A8P-DPLSZHSWB	1	0.64	11.2	175

ELECTRICAL CHARACTERISTICS

Electrical and Transmission Properties at 20°C

MAXIMUM DC RESISTANCE OF CONDUCTOR ohms/km	CAPACITANCE AT 800HZ nF/km	IMPEDANCE ABOVE 1MHZ ohms	ATTENUATION dB/100m				TRANSFER IMPEDANCE AT 10MHZ mohms/m	DIELECTRIC STRENGTH kVac/1min		MINIMUM INSULATION RESISTANCE Gohms/km
			At 9.6kHz	At 38.4kHz	At 4MHz	At 16MHz		Conductor/Conductor	Conductor/Shield	
57.5	29	150	0.3	0.5	2.1	4	10	1.5	1.5	5

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.