

Profibus PA LSZH SWB Cable



Eland Product Group: A8P

APPLICATION

A LSZH (Low Smoke Zero Halogen) fieldbus cable with a SWB (Steel Wire Braid) designed for transmission where additional mechanical protection is required.

CHARACTERISTICS

Voltage Rating

300V (Not for power purposes)

Temperature Rating

Fixed: -30°C to +80°C

Minimum Bending Radius

Fixed: 15 x overall diameter

CONSTRUCTION

Conductor

Class 1 solid copper conductor

Insulation

Solid PE (Polyethylene)

Separation

PET (Polyester Tape)

Filler

HF (Halogen free)

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

Outer Sheath Colour

● Black

STANDARDS

BS EN/IEC 61158, UL 1581, BS EN 60754-1/2,
BS EN/IEC 61034-2

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



ISO/IEC 17025 LABORATORY TESTED

This product is subject to the Quality Assurance protocols of The Cable Lab®, an ISO/IEC 17025 accredited cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.



REGULATORY COMPLIANCE

This cable meets the requirements of the Low Voltage Directive 2014/35/EU and the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab® as meeting the requirements of the BSI RoHS Trusted Kitemark™.



DIMENSIONS

ELAND PART NO.	NO. OF PAIRS	DIAMETER OF CONDUCTOR mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A8P-PALSZHSWB	1	0.85	1	190

ELECTRICAL CHARACTERISTICS

Electrical and Transmission Properties at 20°C

MAXIMUM DC RESISTANCE OF CONDUCTOR ohms/km	CAPACITANCE AT 800HZ nF/km	IMPEDANCE ohms				NOMINAL ATTENUATION dB/km			INDUCTANCE mH/km
		At 1MHz	At 31.25kHz	At 39kHz	3/20MHz	At 1MHz	At 39kHz	At 100kHz	
22	60	80	100	100	150	15	3	4	0.7

MAXIMUM PROPAGATION DELAY CHANGE (7.9/39KHZ) µsec/km	DIELECTRIC STRENGTH kVac/1min		TRANSFER IMPEDANCE mohms/m		MINIMUM INSULATION RESISTANCE Gohms/km
	Conductor/Conductor	Conductor/Shield	At 100kHz	At 1MHz	
1.7	2.5	2.5	15	10	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.