

Hart(BUS) LSZH SWB Cable



Eland Product Group: **A8P**

APPLICATION

Flexible fieldbus cable for fixed and dynamic (non continuous) application, with compound FRNC-LSZH sheath. The item is particularly suitable for HART™ type applications. It is mostly used for data transmission, management and control of sensors and actuators in industrial environments. This article can also offer excellent transmissive performances in accordance with EIA RS485 protocol.

CONSTRUCTION

Conductor

Class 2 stranded tinned copper conductor - 22/7AWG (0.35mm²)

Insulation

Foam-skin PE (Polyethylene)

Shield

AL/PET (Aluminium/Polyester Tape)

Drain Wire

Tinned copper

Overall Shield

TCWB (Tinned Copper Wire Braid)

Inner Sheath

FRNC-LSZH (Flame Retardant Non Corrosive - Low Smoke Zero Halogen)

Armour

GSWB (Galvanized Steel Wire Braid)

Outer Sheath

FRNC-LSZH (Flame Retardant Non Corrosive - Low Smoke Zero Halogen)

CABLE STANDARDS

BS EN/IEC 61158, BS EN/IEC 62026-3, BS EN/IEC 60332-1, BS EN/IEC 61034-2, BS EN/IEC 60754-1, BS EN/IEC 6075-2, BS EN 50267-2-1, BS EN 50267-2-2



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

125V (not for power purposes)

Minimum Bending Radius

10 x overall diameter

Temperature Rating

Fixed: -20°C to +80°C

Insulation Colour

● Blue ○ White

Inner Sheath Colour

● Orange

Outer Sheath Colour

● Black

DIMENSIONS

ELAND PART NO.	NO. OF PAIRS	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A8P-NBLSZHSWB	1	10.6	97

ELECTRICAL CHARACTERISTICS

Electrical and Transmission Properties at 20°C

MAXIMUM DC RESISTANCE OF CONDUCTOR	55.0ohms/km
CAPACITANCE AT 800Hz	42nF/km
IMPEDANCE AT 1MHz	120ohms (±15%)
ATTENUATION AT 100kHz	0.5dB/100m
ATTENUATION AT 1MHz	1.4dB/100m
ATTENUATION AT 5MHz	3.3dB/100m
ATTENUATION AT 10MHz	4.5dB/100m
ATTENUATION AT 20MHz	6.9dB/100m
DIELECTRIC STRENGTH (Core/Core)	0.7kVac/1min
DIELECTRIC STRENGTH (Core/Screen)	0.7kVac/1min
MINIMUM INSULATION RESISTANCE	2.0Gohms/km
TRANSFER IMPEDANCE AT 10MHz	50mohms/m