

ELAND[®]
CABLES

Veriflex[®] Profibus PA FRNC-LSZH Cable



APPLICATION

Veriflex[®] Profibus PA cable for industrial fieldbus systems particularly developed for process automation and instrumentation applications including connecting sensors and actuators in hazardous and intrinsically safe areas.

CHARACTERISTICS

Maximum Operating Voltage
300V

Temperature Rating
Fixed: -30°C to +80°C

Minimum Bending Radius
Fixed: 10 x overall diameter

CONSTRUCTION

Conductor
Solid Bare Copper Wire (18/1AWG)

Insulation
Solid PE (Polyethylene)

Bedding
PET (Polyester Tape)

Filler
Halogen Free Compound

Shield
AL/PET (Aluminium/Polyester Tape)

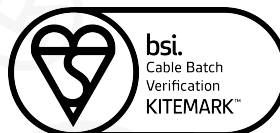
Braid
TCWB (Tinned Copper Wire Braid) 60% Coverage

Sheath
FRNC LSZH (Low Smoke Zero Halogen) Compound

Core Identification
● Green ● Red

Sheath Colour
● Blue

BSI KITEMARK[™] TESTED



KM 662609

Cables are tested and verified by The Cable Lab[®] to confirm they meet the quality standards required of the BSI Cable Batch Verification Kitemark[™]

STANDARDS

BS EN 50267-2-1, BS EN 50267-2-2, IEC 61158

Flame Retardant according to IEC 60332-1-2
Low Smoke Density / Halogen free according to IEC 61034-2, IEC 60754-1/2



UK LABORATORY TESTED

This product is subject to the Quality Assurance protocols of The Cable Lab[®], a UKAS accredited ISO 17025 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	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL DIAMETER OF CONDUCTOR mm	NOMINAL DIAMETER OF INSULATION mm	NOMINAL OUTER DIAMETER OF FILLER SHEATH mm	NOMINAL DIAMETER OF OUTER SHEATH mm	NOMINAL WEIGHT kg/km
VBUPPA02G7LSBU0	1	0.85	1.04	2.5	5.5	7.6	89

ELECTRICAL CHARACTERISTICS AT 20°C

MAXIMUM DC CONDUCTOR RESISTANCE Ω/km	CAPACITANCE AT 800 HZ nF/km	IMPEDANCE (3+20 MHz) Ω (± 10%)	IMPEDANCE Ω			ATTENUATION dB/km		
			31.25 kHz	39 kHz	1MHz	MAXIMUM AT 39kHz	NOMINAL AT 100kHz	NOMINAL AT 1MHz
22	60	150	100	100	80	3.0	4.0	15.0

INDUCTANCE AT 31.25 KH mH/km	DIELECTRIC STRENGTH kVac / 1 min		MINIMUM INSULATION RESISTANCE GΩ X KM	TRANSFER IMPEDANCE mΩ/M		MAXIMUM INSTALLATION PULLING N
	Cond/Cond	Cond/Shield		100kHz	1MHZ	
0.7	2.5	2.5	5.0	15	10	120

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.