

ELAND[®]
CABLES

Veriflex[®] Profibus PA PVC Cable



Eland Product Group: VBU

APPLICATION

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

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)

Separator
PET (Polyester Tape)

Filler
PET (Polyethylene Terephthalate) fibres

Shield
Al/PET (Aluminium/Polyester Tape)

Braid
TCWB (Tinned Copper Wire Braid) 60% Coverage

Sheath
PVC (Polyvinyl Chloride)

Core Identification
● Green ● Red

Sheath Colour
● Blue

BSI KITEMARK™ TESTED



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

STANDARDS

BS EN 60754-1, BS EN 60754-2, IEC 61158

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	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
VBUPPA02G7PVBU0	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
22.0	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.