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

STANDARDS

IEC 61158

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	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

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