ELAND CABLES

Veriflex® Profibus DP FC L2/FIP PVC Cable

Eland Product Group: VBU

APPLICATION

Veriflex® Profibus cable for Fast-Connect, installed indoors in fixed and occasional flexing applications. A fieldbus standard that supports a wide variety of Profibus DP (Decentralized Peripherals) applications in automated manufacturing. Depending on bit rates, segment lengths of up to 1,200m can be achieved.

CHARACTERISTICS

Maximum Operating Voltage
300V

Temperature Rating
Fixed: -40°C to +70°C
Flexing: -10°C to +50°C

Minimum Bending Radius
Fixed: 12 x overall diameter

CONSTRUCTION

Conductor
Solid Bare Copper Wire - 22/1AWG

Insulation
Foam-Skin Polyethylene

Separator
PET (Polyester Tape)

Inner Sheath
PVC (Polyvinyl Chloride)

Shield
Al/PET (Aluminium/Polyester Tape)

Braid
TCWB (Tinned Copper Wires Braid) 60% Coverage

Sheath
PVC (Polyvinyl Chloride)

Core Identification
Green Red

Sheath Colour
Violet

BSI KITEMARK™ TESTED

bsi. Cable Testing Verification KITEMARK™
KM 662609

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

STANDARDS

IEC 61158, EN 50170

Fire Retardant according to: IEC/EN 60332-1

PROFI BUS®

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.

UKAS ISO/IEC 17025 Accredited Testing Laboratory 8578

bsi. ISO 9001 Quality Management FS 672069 | ISO 14001 Environmental Management EMS 672067 | ISO 45001 Occupational Health and Safety Management OHS 672066

REGULATORY COMPLIANCE

This cable is compliant with European Regulation EN 50575, the Construction Products Regulation.

CPR COMPLIANT EN 50575

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™.

bsi. RoHS Trusted KITEMARK™ KM 634267 | RoHS | CE

DIMENSIONS

ELAND PART NO.	NO. OF PAIRS	NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL DIAMETER OF CONDUCTOR mm	NOMINAL DIAMETER OF INSULATION mm	NOMINAL OUTER DIAMETER OF INNER SHEATH mm	NOMINAL DIAMETER OF OUTER SHEATH mm	NOMINAL WEIGHT kg/km
VBUPDP02G5PVVI0	1	0.35	0.64	2.5	5.5	7.9	76

ELECTRICAL CHARACTERISTICS AT 20°C

MAX DC LOOP CONDUCTOR RESISTANCE Ω/km	MAXIMUM DC CONDUCTOR RESISTANCE Ω/km	CAPACITANCE AT 800 HZ nF/km	IMPEDANCE (3÷20 MHZ) Ω (± 10%)	MAXIMUM ATTENUATION dB/km			
				9.6kHz	38.4kHz	4kHz	16kHz
115	57.5	29	150	0.3	0.5	2.1	4.0

DIELECTRIC STRENGTH kVac / 1 min		MINIMUM INSULATION RESISTANCE GΩ X KM	MAXIMUM INSTALLATION PULLING N
Cond/Cond	Cond/Shield		
1.5	1.5	5.0	100

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