

ELAND[®]
CABLES **Veriflex[®] Profibus DP FC L2/FIP PVC Cable****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
Tinned Copper Wires, 60% Coverage

Sheath
PVC (Polyvinyl Chloride)

Core Identification
● Green ● Red

Sheath Colour
● Violet

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

IEC 61158, EN 50170

Fire Retardant according to: IEC 60332-1

**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.



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**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 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 |

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.