



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

STANDARDS

IEC 61158, EN 50170

Fire Retardant according to: IEC/EN 60332-1



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 2015/853/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 INNER SHEATH mm | NOMINAL DIAMETER OF OUTER SHEATH mm | NOMINAL WEIGHT kg/km |
|-----------------|--------------|---|-------------------------------------|--------------------------------------|--|--|-------------------------|
| VBUPDP02G5PVV10 | 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.