ELAND® CABLES

Veriflex® DeviceNet Thick FRNC-LSZH Cable

APPLICATION

Veriflex® DeviceNet Thick cable for fixed and occasional flexing indoor applications in CAN technologies. Connects industrial devices, motor starters and PLCs. Commonly used as trunk cables for industrial ethernet installations.

CHARACTERISTICS

Maximum Operating Voltage
300V

Temperature Rating
-30°C to +80°C

Minimum Bending Radius
15 x overall diameter

CONSTRUCTION

Conductor
Data Pair: Stranded Tinned Copper Wires - 18/19AWG (0.25mm²)
Power Supply Pair: Stranded Tinned Copper Wires - 15/19AWG (0.35mm²)

Insulation
Data Pair: Foam-Skin Polyethylene
Power Supply Pair: Solid Polyethylene

Individual Pair Shield
AL/PET (Aluminium/Polyester Tape)

Drain Wire
Tinner Copper

Overall Shield
TCWB (Tinned Copper Wire Braid)

Separation
PET (Polyester Tape)

Sheath
FRNC-LSZH (Fire Retardant Non-Corrosive Low Smoke Zero Halogen) compound

Core Identification
Data Pair: ○ White ● Blue
Power Supply Pair: ● Black ● Red

Sheath Colour
● Violet

STANDARDS

BS EN 50267-2-1, BS EN 50267-2-2,

Flame Retardant according to IEC 60332-1-2
Low Smoke Density / Halogen free according to IEC 61034-2, IEC 60754-1/2

IEC DeviceNet

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.

UKAS TESTING 8578

bsi. ISO 9001 Quality Management | ISO 14001 Environmental Management | ISO 17025 UKAS Accredited Cable Testing Laboratory | OHSAS 18001 Occupational Health and Safety Management

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™.

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

DIMENSIONS

ELAND PART NO.	NOMINAL CROSS SECTIONAL AREA OF DATA PAIR CONDUCTOR mm^2	NOMINAL CROSS SECTIONAL AREA OF POWER SUPPLY PAIR CONDUCTOR mm^2	NOMINAL COVERAGE OF WIRE BRAID	NOMINAL DIAMETER OF OUTER SHEATH mm	NOMINAL WEIGHT kg/km
VBUDNT04G7LSVI0	0.93	1.93	65%	11.9	220

ELECTRICAL CHARACTERISTICS AT 20°C

DC CONDUCTOR RESISTANCE Ω/km		CAPACITANCE AT 800 HZ DATA PAIR nF/km	IMPEDANCE ≥ 1 MHz DATA PAIR Ω	ATTENUATION DATA PAIR dB/100m			DIELECTRIC STRENGTH kVac / 1 min	MINIMUM INSULATION RESISTANCE GΩxkm	TRANSFER IMPEDANCE AT 10 MHZ mΩ/m
Data	Power Supply Pair			AT 125 kHz	AT 500 kHz	AT 1 MHz			
23.2	11.3	40	120	0.4	0.8	1.25	2.0	5.0	15

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