ELAND® CABLES

Veriflex® PUR Industrial Ethernet Cat6a Cable

APPLICATION

Veriflex® industrial ethernet Cat6a cable suitable for Profinet Type B applications. Can be used in dry or damp rooms for plant engineering and machinery manufacturing. The rugged polyurethane sheath provides protection even in extreme industrial environments.

CHARACTERISTICS

Voltage Rating
125V

Temperature Rating
Fixed: -10°C to +70°C
Flexed: -30°C to +70°C

Minimum Bending Radius
Fixed: 8 x overall diameter
Flexed: 15 x overall diameter

CONSTRUCTION

Conductor
Class 5 flexible stranded bare copper wires (AWG24/7)

Insulation
PE (Polyethylene)

Separator Tape
PET (Polyester)

Inner Sheath
FRNC-LSZH (Flame Retardant Non-Corrosive Low Smoke Zero Halogen) Compound

Screen
AL/PET (Aluminium Polyester Tape)

Braid
TCWB (Tinned Copper Wire Braid) 85% coverage

Separator
Non-Woven PET/PA

Sheath
PUR compound (Thermoplastic Polyurethane)

Pairs Identification
○ White ● Green
○ White ● Orange
○ White ● Blue
○ White ● Brown

Sheath Colour
● Green

STANDARDS

IEC 61156-6, IEC 60811-2-1

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.

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.	NO. OF PAIRS	NOMINAL CONDUCTOR DIAMETER mm^2 (AWG/strands)	NOMINAL DIAMETER INSULATION mm	NOMINAL DIAMETER INNER SHEATH mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
VBUIEN08G3PUGN0	4	0.22 (24/7)	1.05	6.4	8.9	106

ELECTRICAL CHARACTERISTICS AT 20°C

MAXIMUM DC CONDUCTOR RESISTANCE Ω/km	CAPACITANCE pF/km		MINIMUM INSULATION RESISTANCE GΩ x km	IMPEDANCE Ω	NOMINAL PROPAGATION VELOCITY	DELAY SKEW ns/100m	DIELECTRIC STRENGTH kVac / 1 min	
	Core/Core	Unbalanced					Core/Core	Core/Shield
74.5	52	1600	5.0	100	72%	45	1.5	1.0

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