

**ELAND
CABLES** **Veriflex® PUR Industrial Ethernet Cable**

ELAND CABLES

APPLICATION

Veriflex® Industrial Ethernet cable suitable for Profinet Type B applications and Cat7 applications. Backwards compatible with Cat5e, Cat6, Cat6a 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: -40°C to +80°C

Flexed: -20°C to +70°C

Minimum Bending Radius

Fixed: 8 x overall diameter

Flexed: 12 x overall diameter

CONSTRUCTION**Conductor**

Stranded bare copper wires (AWG24/7)

Insulation

FPE (Polyethylene)

Separator Tape

PET (Polyester)

Pair Shield

AL/PET (Aluminium Polyester Tape)

Braid

TCWB (Tinned Copper Wire Braid) 90% coverage

Sheath

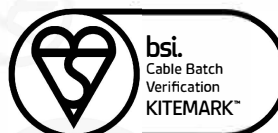
PUR compound (Thermoplastic Polyurethane)

Pairs Identification

- White ● Green
- White ● Orange
- White ● Blue
- White ● Brown

Sheath Colour

- Green

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 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.

**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 CONDUCTOR DIAMETER mm ² (AWG/strands)	NOMINAL DIAMETER INSULATION mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
VBUIEN08G3PUGN1	4	0.22 (24/7)	1.43	8.5	94

ELECTRICAL CHARACTERISTICS AT 20°C

MAXIMUM DC CONDUCTOR RESISTANCE Ω /km	CAPACITANCE pF/km		MINIMUM INSULATION RESISTANCE $G\Omega \times km$	IMPEDANCE Ω	NOMINAL PROPAGATION VELOCITY	MAXIMUM DELAY SKEW ns/100m	DIELECTRIC STRENGTH kVac / 1 min	
	Core/Core	Unbalanced					Core/Core	Core/Shield
84	42	1600	5.0	100	75%	25	1.5	1.0

FREQUENCY MHz	ATTENUATION STD dB/100m	ATTENUATION TYPICAL dB/100m	NEXT STD dB	NEXT TYPICAL dB	PS NEXT STD dB	PS NEXT TYPICAL dB	EI-FEXT STD dB/100m	EI-FEXT TYPICAL dB/100m	PS EI-FEXT STD dB/100m	PS EI-FEXT TYPICAL dB/100m	MINIMUM PS ACR dB/100m	PS ACR TYPICAL dB/100m	RETURN LOSS STD dB	RETURN LOSS TYPICAL dB
1	3	2.1	80	>95	77	>95	78	>95	75	>95	74	92.9	-	28
4	5.6	3.8	80	>95	77	>95	78	>95	75	95	71.4	91.2	23.1	30
10	8.8	5.9	80	>95	77	>95	74	95	71	92	68.2	89.1	25	33
16	11.1	7.6	80	>95	77	>95	69.9	92	66.9	89	65.9	87.4	25	33
20	12.4	8.6	80	>95	77	95	68	88	65	85	64.6	86.4	25	33
31.25	15.6	10.8	80	95	77	92	64.1	82	61.1	79	61.4	81.2	23.3	33
62.5	22.3	15.3	75.5	93	72.5	90	58.1	77	55.1	75	50.2	74.7	20.7	30
100	28.5	19.8	72.4	91	69.4	88	54	70	51	67	40.9	68.2	19	28
125	32.1	22.5	70.9	90	-67.9	87	52.1	68	49.1	65	35.8	64.5	18.2	27
155.52	36	25.3	69.5	89	-66.5	86	50.2	64	47.2	61	30.5	60.7	17.3	25
200	41.2	28.8	67.9	88	64.9	85	48	58	45	55	23.7	56.2	16.4	25
250	46.5	32.2	66.4	86	63.4	83	47	55	43	52	16.9	50.8	15.6	23
350	55.8	38.3	64.2	84	61.2	81	43.1	49	40.1	46	5.4	42.7	15.6	22
500	67.9	46.8	61.9	83	58.9	80	40	47	37	44	-	33.2	15.6	21
600	75.1	51.7	60.7	81	57.7	78	38.4	44	35.4	41	-	26.3	15.6	20

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.