

**ELAND**  
CABLES **Veriflex® Screened Bedded LSZH Cable**

ELAND CABLES ©

Eland Product Group: V33

**APPLICATION**

Veriflex® halogen-free screened flexible connecting cables for use in mechanical engineering for instrumentation and control equipment and for tooling machinery production lines. Suitable for flexible applications for free movement without tensile load, in dry, moist and wet rooms. The screen protects against external interference pulses and whilst the bedding provides additional mechanical protection. These cables are not used for outdoor or underground installation.

**CHARACTERISTICS**

**Voltage Rating**  
300/500V

**Test Voltage**  
2kV

**Temperature Rating**  
Fixed: -40°C to +80°C  
Flexed: -15°C to +70°C

**Minimum Bending Radius**  
Fixed: 6 x overall diameter  
Moved: 15 x overall diameter

**CONSTRUCTION**

**Conductor**  
Class 5 flexible plain copper wires

**Insulation**  
LSZH (Low Smoke Zero Halogen)

**Bedding**  
LSZH (Low Smoke Zero Halogen)

**Screen**  
TCWB (Tinned Copper Wires Braid)

**Sheath**  
LSZH (Low Smoke Zero Halogen)

**Core Identification**  
● Black with white number  
From 3 cores: ● Black with white number + ● Green/Yellow

**Sheath Colour**  
● Grey

**STANDARDS**

VDE 0295, VDE 0207-303-7, VDE 0293-308, VDE 0285-525-2-51, VDE 0285-525-3-11, VDE 0482-332-1-2, VDE 0819-102

Flame Retardant according to IEC 60332-3-24, IEC 60332-1-2  
Low Smoke Density / Halogen free according to IEC 61034-2, IEC 60754-1/2

**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 CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL THICKNESS OF INSULATION mm	NOMINAL OUTER SHEATH THICKNESS mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
V3302001GR000	2	0.5	0.40	0.8	6.8	77
V3302011GR000	2	0.75	0.40	0.8	7.2	77
V3302021GR000	2	1	0.40	0.9	7.8	107
V3302031GR000	2	1.5	0.40	0.9	8.4	127
V3303001GR000	3	0.5	0.40	0.8	7.1	89
V3303011GR000	3	0.75	0.40	0.9	7.7	106
V3303021GR000	3	1	0.40	0.9	8.1	120
V3303031GR000	3	1.5	0.40	1	9	152
V3303041GR000	3	2.5	0.50	1.1	11.1	243
V3304001GR000	4	0.5	0.40	0.9	7.7	105
V3304011GR000	4	0.75	0.40	0.9	8.2	123
V3304021GR000	4	1	0.40	0.9	8.7	142
V3304031GR000	4	1.5	0.40	1	9.6	178
V3304041GR000	4	2.5	0.50	1.1	11.3	254
V3304051GR000	4	4	0.60	1.3	13.6	371
V3304061GR000	4	6	0.65	1.4	15.2	489
V3304071GR000	4	10	0.75	1.7	19.2	766
V3304081GR000	4	16	0.75	1.8	21.5	1062
V3304091GR000	4	25	0.90	2.2	26.6	1577
V3304101GR000	4	35	0.95	2.4	30.4	2096
V3305001GR000	5	0.5	0.40	0.9	8.2	117
V3305011GR000	5	0.75	0.40	0.9	8.7	138
V3305021GR000	5	1	0.40	1	9.5	166
V3305031GR000	5	1.5	0.40	1.1	10.5	208
V3305041GR000	5	2.5	0.50	1.2	12.5	302
V3305051GR000	5	4	0.60	1.3	14.9	463
V3305061GR000	5	6	0.65	1.4	17.3	616
V3305071GR000	5	10	0.75	1.8	21.2	946
V3305081GR000	5	16	0.75	2	23.9	1315
V3307001GR000	7	0.5	0.40	0.9	8.7	138
V3307011GR000	7	0.75	0.40	1	9.5	167
V3307021GR000	7	1	0.40	1	10.1	198
V3307031GR000	7	1.5	0.40	1.1	11.2	251
V3307041GR000	7	2.5	0.50	1.3	13.6	379
V3307051GR000	7	4	0.60	1.4	16.2	588
V3307061GR000	7	6	0.65	1.6	18.8	792
V3310001GR000	12	0.5	0.40	1.1	11.1	213
V3310011GR000	12	0.75	0.40	1.2	12.3	272
V3310021GR000	12	1	0.40	1.2	13.1	316
V3310031GR000	12	1.5	0.40	1.4	14.8	414
V3314011GR000	18	0.75	0.40	1.3	14.1	367
V3314021GR000	18	1	0.40	1.4	15.3	441
V3314031GR000	18	1.5	0.40	1.5	17	569
V3318011GR000	25	0.75	0.40	1.5	16.7	569
V3318021GR000	25	1	0.40	1.6	18.3	611
V3318031GR000	25	1.5	0.40	1.8	20.8	818

## ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	CURRENT CARRYING CAPACITIES 30°C CONTINUOUS LOADING A	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
0.5	9	39
0.75	12	26
1	15	19.5
1.5	18	13.3
2.5	26	7.98
4	34	4.95
6	44	3.3
10	61	1.91
16	82	1.21
25	108	0.780
35	135	0.554

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.