

ELAND[®]
CABLES

Veriflex[®] Screened Bedded LSZH Cable



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

BSI KITEMARK[™] TESTED



Cables are tested and verified by The Cable Lab[®] to confirm they meet the quality standards required of the BSI Cable Testing Verification Kitemark[™].

STANDARDS

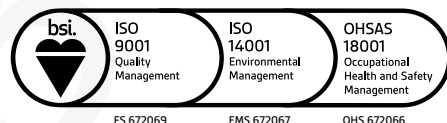
VDE 0295, VDE 0207-303-7, VDE 0293-308,
VDE 0285-525-2-51, VDE 0285-525-3-11,
VDE 0482-332-1-2, VDE 0819-102

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 ²	NOMINAL THICKNESS OF INSULATION mm	NOMINAL OUTER SHEATH THICKNESS mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km	HUMMEL EMC EARTHING GLAND SIZE
V3302001GR000	2	0.5	0.40	0.8	6.8	77	16
V3302011GR000	2	0.75	0.40	0.8	7.2	77	16
V3302021GR000	2	1	0.40	0.9	7.8	107	16
V3302031GR000	2	1.5	0.40	0.9	8.4	127	20
V3303001GR000	3	0.5	0.40	0.8	7.1	89	16
V3303011GR000	3	0.75	0.40	0.9	7.7	106	16
V3303021GR000	3	1	0.40	0.9	8.1	120	16
V3303031GR000	3	1.5	0.40	1	9	152	20
V3303041GR000	3	2.5	0.50	1.1	11.1	243	20
V3304001GR000	4	0.5	0.40	0.9	7.7	105	16
V3304011GR000	4	0.75	0.40	0.9	8.2	123	16
V3304021GR000	4	1	0.40	0.9	8.7	142	20
V3304031GR000	4	1.5	0.40	1	9.6	178	20
V3304041GR000	4	2.5	0.50	1.1	11.3	254	25
V3304051GR000	4	4	0.60	1.3	13.6	371	32
V3304061GR000	4	6	0.65	1.4	15.2	489	32
V3304071GR000	4	10	0.75	1.7	19.2	766	32
V3304081GR000	4	16	0.75	1.8	21.5	1062	40
V3304091GR000	4	25	0.90	2.2	26.6	1577	40
V3304101GR000	4	35	0.95	2.4	30.4	2096	50
V3305001GR000	5	0.5	0.40	0.9	8.2	117	20
V3305011GR000	5	0.75	0.40	0.9	8.7	138	20
V3305021GR000	5	1	0.40	1	9.5	166	20
V3305031GR000	5	1.5	0.40	1.1	10.5	208	20
V3305041GR000	5	2.5	0.50	1.2	12.5	302	20
V3305051GR000	5	4	0.60	1.3	14.9	463	32
V3305061GR000	5	6	0.65	1.4	17.3	616	32
V3305071GR000	5	10	0.75	1.8	21.2	946	40
V3305081GR000	5	16	0.75	2	23.9	1315	40
V3307001GR000	7	0.5	0.40	0.9	8.7	138	20
V3307011GR000	7	0.75	0.40	1	9.5	167	20
V3307021GR000	7	1	0.40	1	10.1	198	20
V3307031GR000	7	1.5	0.40	1.1	11.2	251	25
V3307041GR000	7	2.5	0.50	1.3	13.6	379	32
V3307051GR000	7	4	0.60	1.4	16.2	588	32
V3307061GR000	7	6	0.65	1.6	18.8	792	32
V3312001GR000	12	0.5	0.40	1.1	11.1	213	25
V3312011GR000	12	0.75	0.40	1.2	12.3	272	25
V3312021GR000	12	1	0.40	1.2	13.1	316	32
V3312031GR000	12	1.5	0.40	1.4	14.8	414	32
V3318011GR000	18	0.75	0.40	1.3	14.1	367	32
V3318021GR000	18	1	0.40	1.4	15.3	441	32
V3318031GR000	18	1.5	0.40	1.5	17	569	32
V3318011GR000	25	0.75	0.40	1.5	16.7	569	32
V3318021GR000	25	1	0.40	1.6	18.3	611	32
V3318031GR000	25	1.5	0.40	1.8	20.8	818	40

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm ²	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.