

**ELAND®  
CABLES**

## Veriflex® YY LSZH (HLSH) Control Cable



Eland Product Group: V11

### APPLICATION

Veriflex® low smoke halogen-free flexible connecting cable for instrumentation and control equipment for tooling machinery, production lines, and in flexible applications with free movement and no tensile load. Suitable for use in dry, ambient and wet rooms. These cables are not suitable for outdoor or underground installations.

YY control cables are not suitable for fixed wiring applications requiring compliance with the regulations set out in BS7671.

### CHARACTERISTICS

**Voltage Rating**  
300/500V

**Test Voltage**  
4kV

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

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

### CONSTRUCTION

**Conductor**  
Class 5 flexible plain copper wires

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

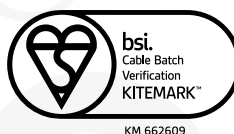
**Sheath**  
LSZH (Low Smoke Zero Halogen)

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

Colour-coded cores available upon request

**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 Batch Verification Kitemark™

### STANDARDS

VDE 0207-303-7, VDE 0285-525-1, VDE 0285-525-2-51, VDE 0482-332-1-2, IEC 60754-1/2

Flame Retardant according to IEC 60332-1-2, IEC 60332-3-24  
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	HUMMEL PA NYLON GLAND SIZE*
V1102001GR000	2	0,5	0,40	0,7	4,8	36	16S
V1102011GR000	2	0,75	0,40	0,7	5,2	46	16S
V1102021GR000	2	1	0,40	0,7	5,6	56	16S
V1102031GR000	2	1,5	0,40	0,8	6,4	73	16
V1102041GR000	2	2,5	0,50	0,9	7,6	113	16
V1103001GR000	3	0,5	0,40	0,7	5,1	44	16S
V1103011GR000	3	0,75	0,40	0,7	5,5	55	16S
V1103021GR000	3	1	0,40	0,8	6,1	69	16
V1103031GR000	3	1,5	0,40	0,8	6,8	91	16
V1103041GR000	3	2,5	0,50	0,9	8,3	140	16
V1103051GR000	3	4	0,60	1	10	210	16
V1103061GR000	3	6	0,65	1,10	11,5	293	20
V1103071GR000	3	10	0,75	1,40	14,9	500	25
V1103081GR000	3	16	0,75	1,50	16,8	704	25
V1104001GR000	4	0,5	0,40	0,7	5,5	54	16S
V1104011GR000	4	0,75	0,40	0,8	6,2	70	16
V1104021GR000	4	1	0,40	0,8	6,7	85	16
V1104031GR000	4	1,5	0,40	0,9	7,6	116	16
V1104041GR000	4	2,5	0,50	1	9,3	179	16
V1104051GR000	4	4	0,60	1,10	11,2	269	16
V1104061GR000	4	6	0,65	1,20	12,8	374	20
V1104071GR000	4	10	0,75	1,50	16,6	608	25
V1104081GR000	4	16	0,75	1,60	18,7	844	32
V1104091GR000	4	25	0,90	2	23,6	1327	40
V1104101GR000	4	35	0,95	2,20	27,2	1790	40
V1105001GR000	5	0,5	0,40	0,8	6,2	64	16
V1105011GR000	5	0,75	0,40	0,8	6,7	83	16
V1105021GR000	5	1	0,40	0,9	7,5	104	16
V1105031GR000	5	1,5	0,40	0,9	8,3	136	16
V1105041GR000	5	2,5	0,50	1,10	10,3	213	20
V1105051GR000	5	4	0,60	1,20	12,4	321	20
V1105061GR000	5	6	0,65	1,30	14,3	447	25
V1105071GR000	5	10	0,75	1,60	18,4	760	32
V1105081GR000	5	16	0,75	1,80	20,9	1064	32
V1105091GR000	5	25	0,90	2,20	26,4	1673	40
V1107001GR000	7	0,5	0,40	0,8	6,7	81	16
V1107011GR000	7	0,75	0,40	0,9	7,5	108	16
V1107021GR000	7	1	0,40	0,9	8,1	130	16
V1107031GR000	7	1,5	0,40	1	9,2	177	16
V1107041GR000	7	2,5	0,50	1,10	11,2	277	20
V1107051GR000	7	4	0,60	1,30	13,7	423	20
V1107061GR000	7	6	0,65	1,40	15,7	593	25
V1108001GR000	8	0,5	0,40	0,9	7,5	95	16
V1108021GR000	8	1	0,40	1	9	150	16
V1108031GR000	8	1,5	0,40	1	10	200	20
V1112001GR000	12	0,5	0,40	1	9,1	139	16
V1112011GR000	12	0,75	0,40	1	9,9	179	20
V1112021GR000	12	1	0,40	1,10	10,9	225	20

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	HUMMEL PA NYLON GLAND SIZE*
V1112031GR000	12	1.5	0.40	1.20	12.4	302	20
V1118001GR000	18	0.5	0.40	1.1	10.7	201	20
V1118011GR000	18	0.75	0.40	1.20	11.9	230	20
V1118021GR000	18	1	0.40	1.20	12.9	324	20
V1118031GR000	18	1.5	0.40	1.40	14.8	446	25
V1118041GR000	18	2.5	0.50	1.60	18.2	704	32
V1125001GR000	25	0.5	0.40	1.2	12.9	285	20
V1125011GR000	25	0.75	0.40	0.130	14.3	372	25
V1125021GR000	25	1	0.40	1.40	15.7	462	25
V1125031GR000	25	1.5	0.40	1.60	18	627	25
V1125041GR000	25	2.5	0.50	1.90	22.3	997	32
V1134011GR000	34	0.75	0.40	1.50	16.3	492	25
V1134021GR000	34	1	0.40	1.60	17.9	617	25
V1134031GR000	34	1.5	0.40	1.70	20.2	833	32

\*Available in BK or GR

## ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	CURRENT CARRYING CAPACITES 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	23	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.