

**ELAND®
CABLES**

Veriflex® SY PVC (YSLYSY) Control Cable



Eland Product Group: V02

APPLICATION

Veriflex® steel wire braided flexible connecting cables for instrumentation and control equipment, for tooling machinery production lines, and in flexible applications for free movement without tensile load. Suitable for use in dry, moist and wet rooms. The galvanised steel wire braid serves as protection against mechanical traverse loads and acts as a magnetic screen against interference. These cables are not used for outdoor or underground installation.

SY 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: -5°C to +70°C

Minimum Bending Radius

Fixed: 4 x overall diameter

Flexed: 12.5 x overall diameter

CONSTRUCTION

Conductor

Class 5 flexible plain copper wires

Insulation

PVC (Polyvinyl Chloride)

Inner Sheath

PVC (Polyvinyl Chloride)

Armour

GSWB (Galvanised Steel Wire Braid)

Sheath

PVC (Polyvinyl Chloride)

Core Identification

● Black with white number

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

Colour-coded cores available upon request

Sheath Colour

● Transparent

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 0207-363-3, VDE 0285-525-2-51, VDE 0285-525-1, VDE 0285-525-2-11, VDE 0482-332-1-2, VDE 819-102 (TM54)

Flame Retardant according to IEC 60332-1-2



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 MS BRASS GLAND SIZE
V0202012CL00000	2	0.75	0.40	0.8	7.2	79.3	16
V0202022CL00000	2	1	0.40	0.8	7.6	91	20
V0202032CL00000	2	1.5	0.40	0.8	8.2	110	20
V0202042CL0000	2	2.5	0.50	0.8	9.4	147	25
V0203012CL00000	3	0.75	0.40	0.8	7.5	91.3	16
V0203021CL0000	3	1	0.40	0.8	7.9	104	20
V0203031CL0000	3	1.5	0.40	0.8	8.6	129	20
V0203041CL0000	3	2.5	0.50	0.9	10.1	185	25
V0203051CL0000	3	4	0.60	1	12	269	25
V0203061CL0000	3	6	0.65	1.1	13.5	354	32
V0203071CL0000	3	10	0.75	1.3	16.9	579	32
V0203081CL0000	3	16	0.75	1.5	19	785	40
V0203091CL0000	3	25	0.90	1.8	23.5	1211	40
V0203101CL0000	3	35	0.95	2	26.7	1642	50
V0204011CL0000	4	0.75	0.40	0.8	8	107	20
V0204021CL0000	4	1	0.40	0.8	8.5	124	20
V0204031CL0000	4	1.5	0.40	0.8	9.2	151	20
V0204041CL0000	4	2.5	0.50	0.9	11.1	230	32
V0204051CL0000	4	4	0.60	1.1	13.2	332	32
V0204061CL0000	4	6	0.65	1.2	14.8	442	32
V0204071CL0000	4	10	0.75	1.5	18.8	735	40
V0204081CL0000	4	16	0.75	1.6	20.9	988	40
V0204091CL0000	4	25	0.90	2	26	1536	40
V0204101CL0000	4	35	0.95	2.2	30	2098	50
V0204111CL0000	4	50	1.25	2.6	35.3	2968	63
V0204121CL0000	4	70	1.25	3	40.5	3822	63
V0204131CL0000	4	95	1.60	3.6	49.4	5369	63
V0205011CL0000	5	0.75	0.40	0.8	8.5	120	20
V0205021CL0000	5	1	0.40	0.8	9.1	140	20
V0205031CL0000	5	1.5	0.40	0.9	10.1	182	25
V0205041CL0000	5	2.5	0.50	1	12.1	266	32
V0205051CL0000	5	4	0.60	1.1	14.2	382	32
V0205061CL0000	5	6	0.65	1.3	16.5	525	32
V0205071CL0000	5	10	0.75	1.6	20.6	873	40
V0205081CL0000	5	16	0.75	1.8	23.4	1207	40
V0205091CL0000	5	25	0.90	2.2	29	1875	50
V0205101CL0000	5	35	0.95	2.4	32.9	2577	63
V0207011CL0000	7	0.75	0.40	0.8	9.1	147	20
V0207021CL0000	7	1	0.40	0.9	9.9	181	25
V0207031CL0000	7	1.5	0.40	0.9	11	226	25
V0207041CL0000	7	2.5	0.50	1.1	13.2	338	32
V0212011CL00000	12	0.75	0.40	1	10.9	237	25
V0212021CL00000	12	1	0.40	1	12.7	280	25
V0212031CL00000	12	1.5	0.40	1.10	14.2	365	32
V0218011CL00000	18	0.75	0.40	1.10	13.7	322	32
V0218021CL00000	18	1	0.40	1.20	14.9	396	32
V0218031CL00000	18	1.5	0.40	1.30	16.8	521	32

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 MS BRASS GLAND SIZE
V0225011CL000	25	0.75	0.40	1.30	16	438	32
V0225021CL000	25	1	0.40	1.40	17,6	544	32
V0225031CL000	25	1.5	0.40	1.50	19,6	708	32

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
0.75	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	0.78
35	135	0.554
50	168	0.386
70	207	0.272
95	223	0.206

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.