

**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)

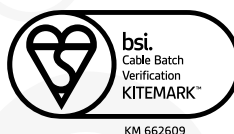
Sheath
PVC (Polyvinyl Chloride)

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 |

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|----------------|--------------|---|---------------------------------------|--------------------------------------|--------------------------------|-------------------------|----------------------------|
| 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.