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

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.

UKAS TESTING 8578

bsi. ISO 9001 Quality Management | ISO 14001 Environmental Management | ISO 17025 UKAS Accredited Cable Testing Laboratory | OHSAS 18001 Occupational Health and Safety Management

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™.

bsi. RoHS Trusted KITEMARK™ KM 634267 | RoHS | CE

DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL THICKNESS OF INSULATION mm	NOMINAL OUTER SHEATH THICKNESS mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
V0202012CL000	2	0.75	0.40	0.8	7.2	79.3
V0202022CL000	2	1	0.40	0.8	7.6	91
V0202032CL000	2	1.5	0.40	0.8	8.2	110
V0202042CL000	2	2.5	0.50	0.8	9.4	147
V0203012CL000	3	0.75	0.40	0.8	7.5	91.3
V0203021CL000	3	1	0.40	0.8	7.9	104
V0203031CL000	3	1.5	0.40	0.8	8.6	129
V0203041CL000	3	2.5	0.50	0.9	10.1	185
V0203051CL000	3	4	0.60	1	12	269
V0203061CL000	3	6	0.65	1.1	13.5	354
V0203071CL000	3	10	0.75	1.3	16.9	579
V0203081CL000	3	16	0.75	1.5	19	785
V0203091CL000	3	25	0.90	1.8	23.5	1211
V0203101CL000	3	35	0.95	2	26.7	1642
V0204011CL000	4	0.75	0.40	0.8	8	107
V0204021CL000	4	1	0.40	0.8	8.5	124
V0204031CL000	4	1.5	0.40	0.8	9.2	151
V0204041CL000	4	2.5	0.50	0.9	11.1	230
V0204051CL000	4	4	0.60	1.1	13.2	332
V0204061CL000	4	6	0.65	1.2	14.8	442
V0204071CL000	4	10	0.75	1.5	18.8	735
V0204081CL000	4	16	0.75	1.6	20.9	988
V0204091CL000	4	25	0.90	2	26	1536
V0204101CL000	4	35	0.95	2.2	30	2098
V0204111CL000	4	50	1.25	2.6	35.3	2968
V0204121CL000	4	70	1.25	3	40.5	3822
V0204131CL000	4	95	1.60	3.6	49.4	5369
V0205011CL000	5	0.75	0.40	0.8	8.5	120
V0205021CL000	5	1	0.40	0.8	9.1	140
V0205031CL000	5	1.5	0.40	0.9	10.1	182
V0205041CL000	5	2.5	0.50	1	12.1	266
V0205051CL000	5	4	0.60	1.1	14.2	382
V0205061CL000	5	6	0.65	1.3	16.5	525
V0205071CL000	5	10	0.75	1.6	20.6	873
V0205081CL000	5	16	0.75	1.8	23.4	1207
V0205091CL000	5	25	0.90	2.2	29	1875
V0205101CL000	5	35	0.95	2.4	32.9	2577
V0207011CL000	7	0.75	0.40	0.8	9.1	147
V0207021CL000	7	1	0.40	0.9	9.9	181
V0207031CL000	7	1.5	0.40	0.9	11	226
V0207041CL000	7	2.5	0.50	1.1	13.2	338
V0212011CL00000	12	0.75	0.40	1	10.9	237
V0212021CL00000	12	1	0.40	1	12.7	280
V0212031CL00000	12	1.5	0.40	1.10	14.2	365
V0218011CL00000	18	0.75	0.40	1.10	13.7	322
V0218021CL00000	18	1	0.40	1.20	14.9	396
V0218031CL00000	18	1.5	0.40	1.30	16.8	521

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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
V0225011CL000	25	0.75	0.40	1.30	16	438
V0225021CL000	25	1	0.40	1.40	17.6	544
V0225031CL000	25	1.5	0.40	1.50	19.6	708

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm^2	CURRENT CARRYING CAPACITES 30°C CONTINOUS 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