Veriflex® YY PVC (YSLY) Control Cable

Eland Product Group: V01

APPLICATION

Veriflex® flexible YY control cable for instrumentation and control equipment, for tooling machinery production lines, and in flexible applications for free movement without tensile load. Suitable in dry, ambitient, wet places. These indoor cables are not used for external or underground installation.

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: -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)

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
● Grey

BSI KITEMARK™ TESTED

bsi. Cable Batch Verification KITEMARK™
KM 662609

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.

UKAS TESTING 8578

bsi. ISO 9001 Quality Management FS 672069 | ISO 14001 Environmental Management EMS 672067 | OHSAS 18001 Occupational Health and Safety Management OHS 672066

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 mm^2	NOMINAL THICKNESS OF INSULATION mm	NOMINAL OUTER SHEATH THICKNESS mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km	HUMMEL PA NYLON GLAND SIZE*
V0102001GR000	2	0.5	0.40	0.7	4.8	36	16
V0102011GR000	2	0.75	0.40	0.7	5.2	46	16S
V0102021GR000	2	1	0.40	0.7	5.6	56	16S
V0102031GR000	2	1.5	0.40	0.8	6.4	73	16
V0102041GR000	2	2.5	0.50	0.9	7.6	113	16
V0103001GR000	3	0.5	0.40	0.7	5.1	44	16
V0103011GR000	3	0.75	0.40	0.7	5.5	55	16S
V0103021GR000	3	1	0.40	0.8	6.1	69	16
V0103031GR000	3	1.5	0.40	0.8	6.8	91	16
V0103041GR000	3	2.5	0.50	0.9	8.3	140	16
V0103051GR000	3	4	0.60	1	10	210	16
V0103061GR000	3	6	0.65	1.10	11.5	293	20
V0103071GR000	3	10	0.75	1.40	14.9	500	25
V0103081GR000	3	16	0.75	1.50	16.8	704	32
V0103091GR000	3	25	0.90	1.80	21.1	1080	32
V0104001GR000	4	0.5	0.40	0.7	5.5	54	16
V0104011GR000	4	0.75	0.40	0.8	6.2	70	16
V0104021GR000	4	1	0.40	0.8	6.7	85	16
V0104031GR000	4	1.5	0.40	0.9	7.6	116	16
V0104041GR000	4	2.5	0.50	1	9.3	179	16
V0104051GR000	4	4	0.60	1.10	11.2	269	20
V0104061GR000	4	6	0.65	1.20	12.8	374	20
V0104071GR000	4	10	0.75	1.50	16.6	608	25
V0104081GR000	4	16	0.75	1.60	18.7	844	32
V0104091GR000	4	25	0.90	2	23.6	1327	40
V0104101GR000	4	35	0.95	2.20	27.2	1790	40
V0105001GR000	5	0.5	0.40	0.8	6.2	64	16
V0105011GR000	5	0.75	0.40	0.8	6.7	83	16
V0105021GR000	5	1	0.40	0.9	7.5	104	16
V0105031GR000	5	1.5	0.40	0.9	8.3	136	16
V0105041GR000	5	2.5	0.50	1.10	10.3	213	20
V0105051GR000	5	4	0.60	1.20	12.4	321	20
V0105061GR000	5	6	0.65	1.30	14.3	447	25
V0105071GR000	5	10	0.75	1.60	18.4	760	32
V0105081GR000	5	16	0.75	1.80	20.9	1064	32
V0105091GR000	5	25	0.90	2.20	26.4	1673	40
V0105101GR000	5	35	0.95	2.40	30.3	2252	40
V0107001GR000	7	0.5	0.40	0.8	6.7	81	16
V0107011GR000	7	0.75	0.40	0.9	7.5	108	16
V0107021GR000	7	1	0.40	0.9	8.1	130	16
V0107031GR000	7	1.5	0.40	1	9.2	177	16
V0107041GR000	7	2.5	0.50	1.10	11.2	277	20
V0107051GR000	7	4	0.60	1.30	13.7	423	20
V0107061GR000	7	6	0.65	1.40	15.7	593	25
V0108011GR000	8	0.75	0.40	0.9	8.1	120	16
V0108021GR000	8	1	0.40	1	9	150	16
V0108031GR000	8	1.5	0.40	1	10	200	20

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V0112001GR00000	12	0.5	0.40	1	9.1	139	20
V0112011GR00000	12	0.75	0.40	1	9.9	179	16
V0112021GR00000	12	1	0.40	1.10	10.9	225	20
V0112031GR00000	12	1.5	0.40	1.20	12.4	302	20
V0118001GR00000	18	0.5	0.40	1.1	10.7	201	20
V0118011GR00000	18	0.75	0.40	1.20	11.9	230	20
V0118021GR00000	18	1	0.40	1.20	12.9	324	25
V0118031GR00000	18	1.5	0.40	1.40	14.8	446	25
V0118041GR000	18	2.5	0.50	1.60	18.2	704	32
V0125001GR000	25	0.5	0.40	1.2	12.9	285	20
V0125011GR000	25	0.75	0.40	1.30	14.3	372	25
V0125021GR000	25	1	0.40	1.40	15.7	462	32
V0125031GR000	25	1.5	0.40	1.60	18	627	40
V0125041GR000	25	2.5	0.50	1.90	22.3	997	32
V0134011GR000	34	0.75	0.40	1.50	16.3	492	25
V0134021GR000	34	1	0.40	1.60	17.9	617	25
V0134031GR000	34	1.5	0.40	1.70	20.2	833	32
V0134041GR000	34	2.5	0.50	2.10	25.2	1337	40
V0150021GR000	50	1	0.40	1.80	21	869	32
V0150031GR000	50	1.5	0.40	2	23.8	1186	40
V0150041GR000	50	2.5	0.50	2.40	29.6	1898	40
V0161021GR000	61	1	0.40	1.90	22.7	1031	32

*Available in BK or GR

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm²	CURRENT CARRYING CAPACITES 30°C CONTINOUS 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