Pump Cable 300m

Eland Product Group: -

APPLICATION

Tough rubber unscreened 0.6/1kV flat cable for installation inside or outside in dry, damp or wet environments and in hazardous envi ronments (subject to local regulations). It can be immersed in fresh and salt water to a depth of 300 meters: for flexible power supplies, suitable for submersible motors and pumps. The synthetic rubber compound is ozone, UV, sunlight and weather resistant.

CHARACTERISTICS

Voltage Rating Uo/U
0.6/1kV

Test Voltage
4kV

Maximum AC Voltage
0.7/1.2kV, 1.8kV DC

Temperature Rating
Fixed: -40°C to 90°C
Flexed: -25°C to +90°C
Maximum short circuit temperature: 250°C

Minimum Bending Radius
Height < 12 mm: 3 x H
Height > 12 mm: 4 x H

CONSTRUCTION

Conductor
Class 5 Tinned Copper

Insulation
EPR (Ethylene Propylene Rubber) Compound - 3GI3 Quality

Sheath
Water Resistant Rubber Compound - EM2 Quality

Core Identification
3 core: Green/Yellow Blue Brown
4 core: Green/Yellow Brown Black Grey

Sheath Colour
Black

STANDARDS

VDE 0207 Part 20, EN 50363-2-1, EN 60228

Flame Retardant acc. to IEC 60332-1-2
Ozone Resistant acc. to IEC 60811-403

Water Resistance Test acc. to EN 50525-2-21 (AD8 condition) and AC internal test
UV Resistant acc. to ISO 4892-2

ISO/IEC 17025 LABORATORY TESTED

This product is subject to the Quality Assurance protocols of The Cable Lab®, an ISO/IEC 17025 accredited cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.

UKAS ISO/IEC 17025 Accredited Testing Laboratory 8578

bsi. ISO 9001 Quality Management FS 672069 | ISO 14001 Environmental Management EMS 672067 | ISO 45001 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 mm²	NOMINAL DIAMETER OF CONDUCTOR mm	HEIGHT mm		WIDTH mm		NOMINAL WEIGHT kg/km	MAXIMUM TENSILE LOAD N
				Minimum	Maximum	Minimum	Maximum		
B3P030040BK	3	4	2.4	7.0	8.0	15.5	16.5	260	180
B3P030060BK	3	6	2.9	7.5	8.5	17.5	18.5	330	270
B3P03010BK	3	10	3.8	10.3	11.0	23.1	24.1	550	450
B3P03016BK	3	16	4.9	12.2	13.2	28.0	29.5	820	720
B3P03025BK	3	25	6.1	14.2	15.2	33	34.5	1180	1125
B3P03035BK	3	35	7.2	16	17.5	37	38.7	1560	1575
B3P03050BK	3	50	8.9	18.5	20	44.1	45.8	2190	2250
B3P03070BK	3	70	10.6	20.5	22	50.5	52.5	2890	3150
B3P03095BK	3	95	12.3	23.1	23.9	57.1	57.9	3610	4275
B3P03120BK	3	120	14.2	25.1	25.9	62.1	62.9	4420	5400
B3P03150BK	3	150	15.5	26.8	27.6	67.2	68	5370	6750
B3P03185BK	3	185	17	28.6	29.4	72.6	73.4	6440	8325
B3P040040BK	4	4	2.4	8	9	23	24	400	240
B3P040060BK	4	6	2.9	8.5	9.5	24.5	25.5	490	360
B3P04010BK	4	10	3.8	10	11	29.5	30.5	710	600
B3P04016BK	4	16	4.9	12	13	34.5	35.5	1040	960
B3P04025BK	4	25	6.1	15.8	17.2	42.l	43.5	1660	1500
B3P04035BK	4	35	7.2	18.6	19.4	48.6	49.8	2190	2100
B3P04050BK	4	50	8.9	19.4	20.2	56.8	57.6	2880	3000
B3P04070BK	4	70	10.6	24	24.8	65.4	66.6	4060	4200
B3P04095BK	4	95	12.3	25.6	26.4	73	74.2	5050	5700
B3P04120BK	4	120	14.2	24.3	25.l	73.8	75	5580	7200

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm²	MAXIMUM DIAMETERS OF WIRES IN CONDUCTOR mm	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C Ohm/km	LAYING IN PIPE AIR (3 ACTIVE PHASES) A		LAYING IN FREE AIR (3 ACTIVE PHASES) A	
			3 Single Core	1 Three Core	3 Single Core	1 Three Core
4	0.31	5.09	37	35	45	42
6	0.31	3.39	48	44	58	54
10	0.41	1.95	66	60	80	75
16	0.41	1.24	88	80	107	100
25	0.41	0.795	117	105	141	127
35	0.41	0.565	144	128	176	158
50	0.41	0.393	175	154	216	192
70	0.51	0.277	222	194	279	246
95	0.51	0.210	269	233	342	298
120	0.51	0.164	312	268	400	346
150	0.51	0.132	355	300	464	399
185	0.51	0.108	417	340	533	456

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