



Hydrocarbon resistant XLPE CAM SWA Armoured 1kV Power Cable



Eland Product Group:

APPLICATION

These cables are used for electricity supply in low voltage installation system. They are suitable for installation in indoors and outdoors, in cable ducts, under ground, in power and switching stations, local energy distributions, industrial plants and where aliphatic and aromatic hydrocarbon may be present or where require chemical and mechanical protections.

CHARACTERISTICS

Voltage Rating (Uo/U)
0.6/1kV

Temperature Rating
-20°C to +60°C

CONSTRUCTION

Conductor
Class 1 Solid (RE) or Class 2 Stranded (RM) Copper

Insulation
XLPE (Cross-Linked Polyethylene)

Inner Sheath
PVC (Polyvinyl Chloride)

Screen
Aluminum/Polyethylene tape

Drain Wire
Tinned copper

Inner Sheath
HDPE (High Density Polyethylene)

Intermediate Sheath
Polyamide

Armour
Galvanized steel wires (Single core: aluminum wires)

Outer Sheath
Special PVC (Polyvinyl Chloride)

Core Identification
1 Core (choice): ● Red ● Black
2 Cores: ● Red ● Black
3 Cores: ● Red ● Yellow ● Blue
4 Cores: ● Red ● Yellow ● Blue ● Black
5 Cores: ● Red ● Yellow ● Blue ● Black ● Green
7 Cores and Above: ● Black with ○ White Numbers

Sheath Colour
● Black

STANDARDS

IEC 60502-1, IEC 60332-3-22

Chemical resistance: Aliphatic and aromatic hydrocarbons

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.



8578



F5 672069



EMS 672067

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™.



KM 674267





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DIMENSIONS

ELAND PART NUMBER	NO OF CORES	CONDUCTOR		NOMINAL DIAMETER OVER INSULATION mm ²	NOMINAL DIAMETER OVER INTERMEDIATE SHEATH mm ²	NOMINAL DIAMETER OVER ARMOUR mm ²	NOMINAL MIN O.D mm ²	NOMINAL MAX O.D mm ²	NOMINAL WEIGHT kg/km
		CROSS-SECTION mm ²	TYPE						
OG0501025BK	1	25	RM	7.9	11.5	15.3	18.3	20.2	619
OG0501035BK	1	35	RM	8.9	12.5	16.3	19.3	21.3	732
OG0501050BK	1	50	RM	10.2	13.8	17.6	20.6	22.7	891
OG0501070BK	1	70	RM	12.0	15.6	19.4	22.3	24.6	1129
OG0501095BK	1	95	RM	13.55	17.1	20.9	23.8	26.2	1394
OG0501120BK	1	120	RM	15.26	18.8	22.6	25.4	28.0	1665
OG0501150BK	1	150	RM	16.97	20.5	24.3	27.1	29.8	1963
OG0501185BK	1	185	RM	19.05	22.6	26.4	29.3	32.3	2383
OG0501240BK	1	240	RM	21.6	25.2	29.0	31.8	35.1	2975
OG0501300BK	1	300	RM	24.2	27.7	31.5	34.4	38.0	3613
OG0501400BK	1	400	RM	27.7	31.2	35.0	38.0	41.9	4505

ELAND PART NUMBER	NO OF CORES	CONDUCTOR		NOMINAL DIAMETER OVER INSULATION mm ²	NOMINAL DIAMETER OVER INNER SHEATH mm ²	NOMINAL DIAMETER OVER INTERMEDIATE SHEATH mm ²	NOMINAL DIAMETER OVER ARMOUR mm ²	NOMINAL MIN O.D mm ²	NOMINAL MAX O.D mm ²	NOMINAL WEIGHT kg/km
		CROSS-SECTION mm ²	TYPE							
OG05020015BKRE	2	1.5	RE	2.79	8.0	11.5	13.3	16.4	18.1	511
OG05020015BK	2	1.5	RM	2.9	8.2	11.8	13.6	16.7	18.4	525
OG05020025BKRE	2	2.5	RE	3.15	8.7	12.3	14.8	17.9	19.7	661
OG05020025BK	2	2.5	RM	3.31	9.0	12.6	15.1	18.1	20.0	682
OG0502004BKRE	2	4	RE	3.61	9.6	13.2	15.7	18.7	20.6	740
OG0502004BK	2	4	RM	3.83	10.1	13.7	16.2	19.2	21.2	766
OG0502006BK	2	6	RM	4.35	11.1	14.7	17.2	20.1	22.3	868
OG0502010BK	2	10	RM	5.25	12.9	16.5	19.0	22.0	24.2	1041
OG0502016BK	2	16	RM	6.25	14.9	18.5	21.7	24.5	27.1	1410
OG0502025BK	2	25	RM	7.9	18.2	21.7	24.9	27.6	30.5	1833
OG0502035BK	2	35	RM	8.9	20.2	23.7	26.9	29.8	32.8	2176
OG0502050BK	2	50	RM	10.2	22.8	26.3	29.5	32.5	35.8	2628
OG0502070BK	2	70	RM	12.0	26.4	29.9	33.9	37.0	40.8	3569
OG0502095BK	2	95	RM	13.55	29.5	33.0	37.0	40.2	44.3	4354
OG0502120BK	2	120	RM	15.26	32.9	36.4	40.4	43.7	48.2	5165
OG05030015BKRE	3	1.5	RE	2.79	8.4	12.0	14.5	17.6	19.4	636
OG05030015BK	3	1.5	RM	2.9	8.7	12.2	14.7	17.8	19.6	654
OG05030025BKRE	3	2.5	RE	3.15	9.2	12.8	15.3	18.3	20.2	703
OG05030025BK	3	2.5	RM	3.31	9.6	13.1	15.7	18.7	20.6	729
OG0503004BKRE	3	4	RE	3.61	10.2	13.8	16.3	19.3	21.3	805
OG0503004BK	3	4	RM	3.83	10.6	14.2	16.7	19.7	21.7	830
OG0503006BK	3	6	RM	4.35	11.8	15.4	17.9	20.9	23.0	951
OG0503010BK	3	10	RM	5.25	13.7	17.3	20.5	23.4	25.8	1291
OG0503016BK	3	16	RM	6.25	15.8	19.4	22.6	25.4	28.0	1590
OG0503025BK	3	25	RM	7.9	19.5	23.0	28.4	29.0	31.9	2097



ELAND PART NUMBER	NO OF CORES	CONDUCTOR		NOMINAL DIAMETER OVER INSULATION mm2	NOMINAL DIAMETER OVER INNER SHEATH mm2	NOMINAL DIAMETER OVER INTERMEDIATE SHEATH mm2	NOMINAL DIAMETER OVER ARMOUR mm2	NOMINAL MIN O.D mm2	NOMINAL MAX O.D mm2	NOMINAL WEIGHT kg/km
		CROSS-SECTION mm2	TYPE							
OG0503035BK	3	35	RM	8.9	21.7	25.2	28.4	31.2	34.4	2533
OG0503050BK	3	50	RM	10.2	24.4	27.9	31.9	35.0	38.6	3347
OG0503070BK	3	70	RM	12.0	28.3	31.8	35.8	39.0	43.0	4255
OG0503095BK	3	95	RM	13.55	31.6	35.1	39.1	42.4	46.8	5265
OG05040015BKRE	4	1.5	RE	2.79	9.2	12.8	15.3	18.3	20.2	688
OG05040015BK	4	1.5	RM	2.9	9.4	13.0	15.5	18.5	20.4	712
OG05040025BKRE	4	2.5	RE	3.15	10.0	13.7	16.2	19.2	21.2	770
OG05040025BK	4	2.5	RM	3.31	10.4	14.1	16.6	19.6	21.6	799
OG0504004BKRE	4	4	RE	3.61	11.1	14.7	17.2	20.2	22.3	888
OG0504004BK	4	4	RM	3.83	11.7	15.3	17.8	20.8	22.9	917
OG0504006BK	4	6	RM	4.35	12.9	16.5	19.0	21.9	24.2	1052
OG0504010BK	4	10	RM	5.25	15.0	18.6	21.8	24.6	27.2	1467
OG0504016BK	4	16	RM	6.25	17.5	21.1	24.3	27.0	29.8	1836
OG0504025BK	4	25	RM	7.9	21.6	25.1	28.3	31.1	34.4	2477
OG0504035BK	4	35	RM	8.9	23.9	27.4	30.6	33.6	37.0	3010
OG0504050BK	4	50	RM	10.2	27.0	30.5	34.5	37.5	41.4	3964
OG0504070BK	4	70	RM	12.0	31.4	34.9	38.9	42.2	46.6	5123
OG05050015BKRE	5	1.5	RE	2.79	9.9	13.5	16.0	19.0	21.0	751
OG05050015BK	5	1.5	RM	2.9	10.2	13.9	16.4	19.4	21.4	774
OG05050025BKRE	5	2.5	RE	3.15	10.9	14.5	17.0	20.0	22.0	840
OG05050025BK	5	2.5	RM	3.31	11.3	14.9	17.4	20.4	22.5	870
OG0505004BKRE	5	4	RE	3.61	12.2	15.7	18.2	21.2	23.3	979
OG0505004BK	5	4	RM	3.83	12.7	16.3	18.8	21.7	24.0	1019
OG0505006BK	5	6	RM	4.35	14.1	17.7	20.9	23.9	26.2	1317
OG0505010BK	5	10	RM	5.25	16.5	20.1	23.3	26.1	28.8	1640
OG0505016BK	5	16	RM	6.25	19.2	22.8	26.0	28.7	31.7	2096
OG0505025BK	5	25	RM	7.9	23.7	27.2	30.4	33.4	36.8	2855
OG0505035BK	5	35	RM	8.9	26.4	29.9	33.9	37.0	40.8	3777
OG0505050BK	5	50	RM	10.2	29.9	33.4	37.4	40.6	44.7	4645
OG05070015BK	7	1.5	RM	2.9	10.8	14.3	16.8	19.8	21.8	797
OG05070025BK	7	2.5	RM	3.31	12.1	15.6	18.1	21.1	23.2	919
OG05100015BK	10	1.5	RM	2.9	13.7	17.2	20.4	23.3	25.7	1114
OG05100025BK	10	2.5	RM	3.31	15.3	18.8	22.0	24.8	27.4	1287
OG05120015BK	12	1.5	RM	2.9	14.3	17.8	21.0	23.9	26.3	1179
OG05120025BK	12	2.5	RM	3.31	15.9	19.4	22.6	25.4	28.0	1371
OG05140015BK	14	1.5	RM	2.9	15.0	18.5	21.7	24.5	27.1	1251
OG05140025BK	14	2.5	RM	3.31	16.7	20.2	23.4	26.2	28.9	1475
OG05190015BK	19	1.5	RM	2.9	16.6	20.1	23.3	26.1	28.8	1427
OG05190025BK	19	2.5	RM	3.31	18.7	22.2	25.4	28.1	31.0	1724
OG05240015BK	24	1.5	RM	2.9	19.5	23.0	26.2	28.9	31.9	1678
OG05240025BK	24	2.5	RM	3.31	22.1	25.6	28.8	31.6	34.9	2050
OG05270015BK	27	1.5	RM	2.9	20.0	23.5	26.7	29.6	32.6	1776
OG05270025BK	27	2.5	RM	3.31	22.5	26.0	29.2	32.0	35.3	2154
OG05300015BK	30	1.5	RM	2.9	20.7	24.2	27.4	30.3	33.4	1884
OG05300025BK	30	2.5	RM	3.31	23.4	26.9	30.1	33.1	36.5	2305
OG05370015BK	37	1.5	RM	2.9	22.4	25.9	29.1	29.1	35.2	2099
OG05370025BK	37	2.5	RM	3.31	25.3	28.8	32.8	32.8	39.6	2851