

G4727 LFH Armoured Cable (London Underground)



Eland Product Group:

APPLICATION

Limited fire hazard armoured cable intended for use on NON-Safety critical low voltage AC systems.

CONSTRUCTION

Conductor

Class 2 Stranded plain copper conductor

Insulation

XLPE (Cross-Linked Polyethylene)

Bedding

LFH (Limited Fire Hazard)

Armour

SWA (Steel Wire Armour)

Sheath

LFH (Limited Fire Hazard)

CABLE STANDARDS

G4727 (Previously EME-SP-14-027)

LUL Approved



The electrical and dimensional properties of this product are measured by the Technical and Quality Assurance department at the Eland Cables laboratory. Cable performance in respect of conductor resistance, construction quality (workmanship), dimensional consistency, and other parameters are verified to published standards and approved product drawings. Conformance to RoHS (Restriction of the use of Hazardous Substances) is determined and confirmed.

CHARACTERISTICS

Voltage Rating (U_o/U)

600/1000V

Temperature Rating

-15°C to +90°C

Minimum Bending Radius

8 x overall diameter

Core Identification

2 Core: ● Brown ● Blue

3 Core: ● Brown ● Black ● Grey

4 Core: ● Brown ● Black ● Grey ● Blue

Sheath Colour

● Black

DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM DC RESISTANCE OF CONDUCTOR AT 20°C ohms/km	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A9SWA2025LUL	2	2.5*	7.41	12.2	323
A9SWA2040LUL	2	4*	4.61	13.3	387
A9SWA2060LUL	2	6*	3.08	14.4	460
A9SWA210LUL	2	10*	1.83	16.1	611
A9SWA216LUL	2	16*	1.15	18.7	904
A9SWA225LUL	2	25	0.727	21	1050
A9SWA235LUL	2	35	0.524	22	1450
A9SWA250LUL	2	50	0.387	24	1800
A9SWA270LUL	2	70	0.268	27	2300
A9SWA295LUL	2	95	0.193	32	3250
A9SWA2120LUL	2	120	0.153	35	3950
A9SWA2150LUL	2	150	0.124	38	4650
A9SWA2185LUL	2	185	0.0991	43	6050
A9SWA2240LUL	2	240	0.0754	49	7500
A9SWA2300LUL	2	300	0.0601	54	9050
A9SWA3025LUL	3	2.5*	7.41	12.1	335
A9SWA3040LUL	3	4*	4.61	13.3	430
A9SWA3060LUL	3	6*	3.08	14.4	523
A9SWA310LUL	3	10*	1.83	17	811
A9SWA316LUL	3	16*	1.15	19.3	1072
A9SWA325LUL	3	25	0.727	24	1750
A9SWA335LUL	3	35	0.524	27	2000
A9SWA350LUL	3	50	0.387	28	2450
A9SWA370LUL	3	70	0.268	32	3250
A9SWA395LUL	3	95	0.193	36	4500
A9SWA3120LUL	3	120	0.153	40	5350
A9SWA3150LUL	3	150	0.124	44	6900
A9SWA3185LUL	3	185	0.0991	49	8200
A9SWA3240LUL	3	240	0.0754	56	10350
A9SWA3300LUL	3	300	0.0601	62	12600
A9SWA4025LUL	4	2.5*	7.41	13.6	406
A9SWA4040LUL	4	4*	4.61	14.9	505
A9SWA4060LUL	4	6*	3.08	17.1	737
A9SWA410LUL	4	10*	1.83	18.9	969
A9SWA416LUL	4	16*	1.15	21.5	1303
A9SWA425LUL	4	25	0.727	27	2100
A9SWA435LUL	4	35	0.524	29	2450
A9SWA450LUL	4	50	0.387	32	3100
A9SWA470LUL	4	70	0.268	37	4400
A9SWA495LUL	4	95	0.193	41	5650
A9SWA4120LUL	4	120	0.153	46	7300
A9SWA4150LUL	4	150	0.124	51	8700
A9SWA4185LUL	4	185	0.0991	55	10450
A9SWA4240LUL	4	240	0.0754	63	13250
A9SWA4300LUL	4	300	0.0601	68	16100

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm ²	CURRENT CARRYING CAPACITY			VOLTAGE DROP		
	Laid Direct Amps	In Ducts Amps	In Air Amps	DC mV/A/M	Single Phase AC mV/A/M	Three Phase AC mV/A/M
2 Core						
2.5*	49	41	41	19	19	-
4*	65	53	55	12	12	-
6*	81	67	70	7.9	7.9	-
10*	109	89	95	4.7	4.7	-
16*	141	115	126	2.9	2.9	-
25	183	148	164	1.85	1.9	-
35	219	178	202	1.35	1.35	-
50	259	211	244	0.98	1	-
70	317	260	306	0.67	0.69	-
95	381	313	378	0.49	0.52	-
120	433	357	437	0.39	0.42	-
150	485	401	499	0.31	0.35	-
185	547	455	576	0.25	0.29	-
240	632	527	680	0.195	0.24	-
300	708	592	775	0.155	0.21	-
3 and 4 Core						
2.5*	42	34	35	-	-	16
4*	55	45	47	-	-	10
6*	69	56	59	-	-	6.8
10*	92	75	82	-	-	4
16*	119	96	107	-	-	2.5
25	152	124	140	-	-	1.65
35	182	149	172	-	-	1.15
50	217	177	209	-	-	0.87
70	266	218	263	-	-	0.6
95	319	263	324	-	-	0.45
120	363	300	376	-	-	0.37
150	406	338	430	-	-	0.3
185	458	382	495	-	-	0.26
240	529	442	584	-	-	0.21
300	592	496	666	-	-	0.185

*Circular conductor