

G4727 LFH Armoured Cable (London Underground)



APPLICATION

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

CHARACTERISTICS

Voltage Rating U_o/U
0.6/1kV

Temperature Rating
-15°C to +90°C

Minimum Bending Radius
8 x overall diameter

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)

Core Identification
2 Core: ● Brown ● Blue
3 Core: ● Brown ● Black ● Grey
4 Core: ● Brown ● Black ● Grey ● Blue

Sheath Colour
● Black

CABLE THIRD-PARTY ACCREDITATION



Cables are tested and accredited by BASEC, The British Approvals Service for Cables



London Underground Limited (LUL) certified and listed on the Approved Products Register as meeting the requirements for installation within their network

STANDARDS

G4727, LUL

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



FS 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 E34267





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 Amps | | | VOLTAGE DROP mV/A/M | | |
|---|-----------------------------------|----------|--------|------------------------|-----------------|----------------|
| | Laid Direct | In Ducts | In Air | DC | Single Phase AC | Three Phase AC |
| 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 | - |
| 2 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

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.