Z1G-YMz1Kas mbzh (LSZH) Cable

Eland Product Group: B1A

APPLICATION

The Z1G-YMz1Kas mbzh (LSZH) cable is used for industrial applications. Suitable for underground laying and where there is mechanical compulsion.

CHARACTERISTICS

Voltage Rating Uo/U
0.6/1kV

Test Voltage
3.5kV AC

Temperature Rating
Maximum Operating: 90°C
Maximum Short-Circuit: 250°C

Minimum Bending Radius
15 x overall diameter

CONSTRUCTION

Conductor
Class 1 Solid copper
Class 2 Stranded copper

Insulation
XLPE (Cross-Linked Polyethylene)

Filler
HFFR (Halogen free flame retardant)

Inner Sheath
HFFR (Halogen free flame retardant)

Armour
Galvanized flat steel wires and flat bare copper wires covered with an open counter spiral of galvanized steel tape

Outer Sheath
HFFR (Halogen free flame retardant)

Outer Sheath Colour
Grey

CABLE THIRD-PARTY ACCREDITATION

Cables are tested and accredited by KEMA Laboratories in The Netherlands to KEMA K42C-1-5

STANDARDS

HD-604-5-C, KEMA K42C-1-5

Flame retardant according to EN 60332-3-24 Cat.C

THE CABLE LAB®

AN ISO/IEC 17025 AND IECEE CBTL ACCREDITED FACILITY

Our world-class testing facility assures the quality and compliance of this cable through a continuous and rigorous testing regime.

SUSTAINABILITY COMMITMENT

We are on a journey to Net Zero.

We've committed to near-term emissions reductions and a net-zero target with the Science Based Targets initiative and we're a signatory to the United Nations Global Compact Sustainable Development Goals.

Learn more about embodied carbon and our carbon emissions reduction actions, our comprehensive recycling services, and wider ESG activities for sustainable operations at: www.elandcables.com/company/about-us/esg-sustainability

REGULATORY COMPLIANCE

This cable is compliant with European Regulation EN 50575, the Construction Products Regulation.

This cable meets the requirements of the Low Voltage Directive 2014/35/EU, the RoHS Directive 2015/65/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab®.

DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL DIAMETER OF CONDUCTOR mm	NOMINAL THICKNESS OF INSULATION mm	NOMINAL THICKNESS OF OUTER SHEATH mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
B1A020015/1.5GR	2	1.5/1.5	1.36	0.70	1.80	13.6	389
B1A020025/2.5GR	2	2.5/2.5	1.75	0.70	1.80	14.3	451
B1A020040/4GR	2	4/4	2.22	0.70	1.80	15.3	534
B1A020060/6GR	2	6/6	2.71	0.70	1.80	16.3	633
B1A02010/10GR	2	10/10	3.85	0.70	1.80	18.5	857
B1A02016/10GR	2	16/16	4.70	0.70	1.80	20.2	1096
B1A02025/16GR	2	25/16	5.85	0.90	1.80	22.5	1292
B1A02035/16GR	2	35/16	6.90	0.90	1.80	24.6	1574
B1A02050/25GR	2	50/25	8.10	1.00	1.80	27.6	2043
B1A02070/35GR	2	70/35	9.70	1.10	1.90	31.4	2711
B1A02095/50GR	2	95/50	11.40	1.10	2.00	35.2	3669
B1A030015/1.5GR	3	1.5/1.5	1.36	0.70	1.80	14.0	429
B1A030025/2.5GR	3	2.5/2.5	1.75	0.70	1.80	14.8	505
B1A030040/4GR	3	4/4	2.22	0.70	1.80	15.9	608
B1A030060/6GR	3	6/6	2.71	0.70	1.80	16.9	731
B1A03010/10GR	3	10/10	3.85	0.70	1.80	19.4	975
B1A03016/10GR	3	16/16	4.70	0.70	1.80	21.2	1268
B1A03025/16GR	3	25/16	5.85	0.90	1.80	24.6	1697
B1A03035/16GR	3	35/16	6.90	0.90	1.80	26.0	1908
B1A03050/25GR	3	50/25	8.10	1.00	1.80	29.4	2537
B1A03070/35GR	3	70/35	9.70	1.10	2.00	33.9	3430
B1A03095/50GR	3	95/50	11.40	1.10	2.10	38.0	4626
B1A03120/70GR	3	120/70	12.65	1.20	2.20	42.5	5960
B1A03150/70GR	3	150/70	14.15	1.40	2.40	47.2	7136
B1A040015/1.5GR	4	1.5/1.5	1.36	0.70	1.80	14.7	467
B1A040025/2.5GR	4	2.5/2.5	1.75	0.70	1.80	15.7	554
B1A040040/4GR	4	4/4	2.22	0.70	1.80	16.8	673
B1A040060/6GR	4	6/6	2.71	0.70	1.80	18.0	815
B1A04010/10GR	4	10/10	3.85	0.70	1.80	20.7	1132
B1A04016/10GR	4	16/16	4.70	0.70	1.80	22.8	1487
B1A04025/16GR	4	25/16	5.85	0.90	1.80	26.8	2039
B1A04035/16GR	4	35/16	6.90	0.90	1.80	28.5	2334
B1A04050/25GR	4	50/25	8.10	1.00	1.90	32.4	3120
B1A04070/35GR	4	70/35	9.70	1.10	2.10	38.4	4589
B1A04095/50GR	4	95/50	11.40	1.10	2.20	42.9	6101
B1A04120/70GR	4	120/70	12.65	1.20	2.40	47.0	7354
B1A04150/70GR	4	150/70	14.15	1.40	2.50	52.0	8818
B1A050015/1.5GR	5	1.5/1.5	1.36	0.70	1.80	15.5	519
B1A050025/2.5GR	5	2.5/2.5	1.75	0.70	1.80	16.5	620
B1A050040/4GR	5	4/4	2.22	0.70	1.80	17.8	760
B1A050060/6GR	5	6/6	2.71	0.70	1.80	19.1	928
B1A05010/10GR	5	10/10	3.85	0.70	1.80	22.2	1300
B1A05016/10GR	5	16/16	4.70	0.70	1.80	24.5	1722
B1A05025/16GR	5	25/16	5.85	0.90	1.80	28.9	2389
B1A05035/16GR	5	35/16	6.90	0.90	1.90	31.1	2786

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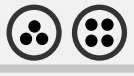
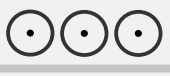
ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm²	EQUIVALENT COPPER CROSS SECTION AREA OF ARMOUR CONDUCTOR mm²	MAXIMUM CONDUCTOR DC RESISTANCE AT AT 20°C ohm/km
1.5	1.5	12.1
2.5	2.5	7.41
4	4	4.61
6	6	3.08
10	10	1.83
16	16	1.15
25	16	0.727
35	16	0.524
50	25	0.387
70	35	0.268
95	50	0.193
120	60	0.153
150	75	0.124
185	95	0.0991
240	100	0.0754
300	100	0.0601
400	100	0.0471

CURRENT CARRYING CAPACITY

NOMINAL CROSS SECTIONAL AREA mm²	RATED CURRENT A				
					
1.5	33	25	24	26	32
2.5	43	34	32	34	42
4	57	44	42	44	56
6	72	57	53	56	71
10	99	77	73	77	96
16	131	102	97	102	128
25	177		132	138	173
35	217		162	170	212
50	265		197	207	258
70	336		250	263	328
95	415		308	325	404
120	485		359	380	471
150	557		412	437	541
185	647		475	507	626
240	775		564	604	749
300	894		649	692	864
400	1061		761	812	1018

Cables in air
Permissible operating temperature: 90°C