



# Z10-YMz1Kas mbzh (LSZH) Cable



Eland Product Group: B1B

## APPLICATION

The Z10-YMz1Kas mbzh (LSZH) Cable is used for industrial applications. Suitable for underground laying and where there is mechanical compulsion.

## CHARACTERISTICS

**Voltage Rating** U<sub>o</sub>/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)

**Braiding**  
GSWB (Galvanized Steel Wire Braid)

**Drain Wire**  
Tinned Copper

**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<sup>®</sup>

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](http://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<sup>®</sup>.





## DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL DIAMETER OF CONDUCTOR mm	NOMINAL THICKNESS OF INSULATION mm	NOMINAL THICKNESS OF OUTER SHEATH mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
B1B010015/1.5GR	1	1.5/1.5	1.36	0.70	1.80	10.8	157
B1B010025/2.5GR	1	2.5/2.5	1.75	0.70	1.80	11.6	186
B1B010040/4GR	1	4/4	2.22	0.70	1.80	12.5	228
B1B010060/6GR	1	6/6	2.71	0.70	1.80	13.6	277
B1B01010/10GR	1	10/10	2.22	0.70	1.80	16.7	435
B1B01016/10GR	1	16/16	2.71	0.70	1.80	18.4	542
B1B01025/16GR	1	25/16	3.85	0.70	1.80	21.8	777
B1B01035/16GR	1	35/16	4.70	0.70	1.80	24.8	1054
B1B020015/1.5GR	2	1.5/1.5	1.36	0.70	1.80	13.5	252
B1B020025/2.5GR	2	2.5/2.5	1.75	0.70	1.80	14.7	304
B1B020040/4GR	2	4/4	2.22	0.70	1.80	16.1	378
B1B020060/6GR	2	6/6	2.71	0.70	1.80	17.7	466
B1B02010/10GR	2	10/10	3.85	0.70	1.80	21.0	660
B1B02016/10GR	2	16/16	4.70	0.70	1.80	23.9	883
B1B02025/16GR	2	25/16	5.85	0.90	1.80	27.0	1186
B1B02035/16GR	2	35/16	6.90	0.90	1.80	29.1	1451
B1B030015/1.5GR	3	1.5/1.5	1.36	0.70	1.80	14.0	281
B1B030025/2.5GR	3	2.5/2.5	1.75	0.70	1.80	15.2	345
B1B030040/4GR	3	4/4	2.22	0.70	1.80	16.7	435
B1B030060/6GR	3	6/6	2.71	0.70	1.80	18.4	542
B1B03010/10GR	3	10/10	3.85	0.70	1.80	21.8	777
B1B03016/10GR	3	16/16	4.70	0.70	1.80	24.8	1054
B1B03025/16GR	3	25/16	5.85	0.90	1.80	28.2	1449
B1B03035/16GR	3	35/16	6.90	0.90	1.80	30.4	1802
B1B040015/1.5GR	4	1.5/1.5	1.36	0.70	1.80	14.7	321
B1B040025/2.5GR	4	2.5/2.5	1.75	0.70	1.80	16.0	397
B1B040040/4GR	4	4/4	2.22	0.70	1.80	17.7	506
B1B040060/6GR	4	6/6	2.71	0.70	1.80	19.4	636
B1B04010/10GR	4	10/10	3.85	0.70	1.80	23.2	920
B1B04016/10GR	4	16/16	4.70	0.70	1.80	26.4	1259
B1B04025/16GR	4	25/16	5.85	0.90	1.80	30.4	1776
B1B04035/16GR	4	35/16	6.90	0.90	1.80	32.9	2232
B1B050015/1.5GR	5	1.5/1.5	1.36	0.70	1.80	15.5	364
B1B050025/2.5GR	5	2.5/2.5	1.75	0.70	1.80	16.9	454
B1B050040/4GR	5	4/4	2.22	0.70	1.80	18.7	583
B1B050060/6GR	5	6/6	2.71	0.70	1.80	20.6	737
B1B05010/10GR	5	10/10	3.85	0.70	1.80	24.7	1074
B1B05016/10GR	5	16/16	4.70	0.70	1.80	28.1	1477
B1B05025/16GR	5	25/16	5.85	0.90	1.80	32.5	2111
B1B05035/16GR	5	35/16	6.90	0.90	1.90	35.9	2751



## ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	CURRENT CARRYING CAPACITY A	MAXIMUM CONDUCTOR DC RESISTANCE AT 20°C ohm/km
1.5/1.5	24	12.1
2.5/2.5	32	7.41
4/4	42	4.61
6/6	53	3.08
10/10	72	1.83
16/16	95	1.15
25/16	127	0.727/1.15
35/16	151	0.524/1.15

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.