



## YMz1K mbzh (LSZH) Cable



Eland Product Group: B1D

### APPLICATION

The YMz1K mbzh (LSZH) cable is suitable for dry humid areas. All type of factories, warehouses and depots where there is fire and explosion threat. Not suitable for underground. This cable can be used in fixed installations laying in conduit on and under plaster.

### CHARACTERISTICS

**Voltage Rating** U<sub>0</sub>/U  
0.6/1kV

**Test Voltage**  
3.5kV AC

**Temperature Rating**  
Maximum Operating: 90°C

**Short Circuit Temperature**  
+250°C

**Minimum Bending Radius**  
12 x overall diameter

### CONSTRUCTION

**Conductor**  
Class 1 Solid copper  
Class 2 Stranded copper

**Insulation**  
XLPE (Cross-Linked Polyethylene)

**Filler**  
HFFR (Halogen free flame retardant)

**Sheath**  
HFFR (Halogen free flame retardant)

**Core Identification**

- 1 core: ● Black
- 2 core: ● Blue ● Brown
- 3 core including earth: ● Blue ● Brown ● Green/Yellow
- 3 core: ● Brown ● Black ● Grey
- 4 core including earth: ● Brown ● Black ● Grey ● Green/Yellow
- 5 core including earth core: ● Brown ● Black ● Grey ● Green/Yellow ● Blue

**Outer Sheath Colour**  
● Black

### CABLE THIRD-PARTY ACCREDITATION



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

### STANDARDS

NEN 3618, HD-604-5-C, NEN-EN 60332-1/2, NEN-EN 60754, NEN-EN 61034, DIN VDE 0100, CEI 20-60, NEN 1010 and NF C15-100, NEN-EN 30332-1

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

### 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.



### 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 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™.





## 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
B1D010015BK	1	1.5	1.36	0.70	1.4	5.6	45
B1D010025BK	1	2.5	1.74	0.70	1.4	5.9	57
B1D010040BK	1	4	2.22	0.70	1.4	6.4	74
B1D010060BK	1	6	2.71	0.70	1.4	6.9	95
B1D01010BK	1	10	3.85	0.70	1.4	8.1	140
B1D01016BK	1	16	4.70	0.70	1.4	8.9	198
B1D01025BK	1	25	5.85	0.90	1.4	10.5	293
B1D01035BK	1	35	6.90	0.90	1.4	11.5	387
B1D01050BK	1	50	8.10	1.00	1.4	12.9	512
B1D01070BK	1	70	9.70	1.10	1.4	14.7	713
B1D01095BK	1	95	11.40	1.10	1.5	16.6	965
B1D01120BK	1	120	12.65	1.20	1.5	18.1	1194
B1D01150BK	1	150	14.40	1.40	1.6	20.4	1480
B1D01185BK	1	185	15.75	1.60	1.6	22.2	1816
B1D01240BK	1	240	18.20	1.70	1.7	25.0	2361
B1D01300BK	1	300	20.50	1.80	1.8	27.7	2954
B1D01400BK	1	400	23.00	2.00	1.9	30.8	3757
B1D020015BK	2	1.5	1.36	0.70	1.8	10.5	149
B1D020025BK	2	2.5	1.74	0.70	1.8	11.3	182
B1D020040BK	2	4	2.22	0.70	1.8	12.2	231
B1D020060BK	2	6	2.71	0.70	1.8	13.2	287
B1D02010BK	2	10	3.85	0.70	1.8	16.1	439
B1D02016BK	2	16	4.70	0.70	1.8	17.8	590
B1D02025BK	2	25	5.85	0.90	1.8	20.9	854
B1D02035BK	2	35	6.90	0.90	1.8	23.0	1100
B1D02050BK	2	50	8.10	1.00	1.8	25.8	1436
B1D02070BK	2	70	9.70	1.10	1.8	29.8	1990
B1D02095BK	2	95	11.40	1.10	1.9	33.4	2631
B1D02120BK	2	120	12.65	1.20	2.1	36.7	3252
B1D02150BK	2	150	14.40	1.40	2.2	41.8	4096
B1D030015BK	3	1.5	1.36	0.70	1.8	11.0	170
B1D030025BK	3	2.5	1.74	0.70	1.8	11.8	211
B1D030040BK	3	4	2.22	0.70	1.8	12.9	276
B1D030060BK	3	6	2.71	0.70	1.8	13.9	348
B1D03010BK	3	10	3.85	0.70	1.8	16.4	514
B1D03016BK	3	16	4.70	0.70	1.8	18.8	741
B1D03025BK	3	25	5.85	0.90	1.8	22.2	1090
B1D03035BK	3	35	6.90	0.90	1.8	24.4	1418
B1D03050BK	3	50	8.10	1.00	1.8	27.5	1870
B1D03070BK	3	70	9.70	1.10	1.9	32.0	2637
B1D03095BK	3	95	11.40	1.10	2.0	35.8	3492
B1D03120BK	3	120	12.65	1.20	2.1	39.2	4344
B1D03150BK	3	150	14.40	1.40	2.3	44.8	5438
B1D03185BK	3	185	15.75	1.60	2.4	48.8	6684
B1D03240BK	3	240	18.20	1.70	2.6	54.9	8633
B1D03300BK	3	300	20.50	1.80	2.8	60.7	10910
B1D040015BK	4	1.5	1.36	0.70	1.8	11.7	198



Click here for more information:  
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B1D040025BK	4	2.5	1.74	0.70	1.8	12.6	249
B1D040040BK	4	4	2.22	0.70	1.8	13.8	332
B1D040060BK	4	6	2.71	0.70	1.8	15.0	425
B1D04010BK	4	10	3.85	0.70	1.8	18.4	667
B1D04016BK	4	16	4.70	0.70	1.8	18.1	838
B1D04025BK	4	25	5.85	0.90	1.8	24.6	1395
B1D04035BK	4	35	6.90	0.90	1.8	27.1	1826
B1D04050BK	4	50	8.10	1.00	1.9	30.7	2422
B1D04070BK	4	70	9.70	1.10	2.0	35.8	3407
B1D04095BK	4	95	11.40	1.10	2.1	40.2	4540
B1D04120BK	4	120	12.65	1.20	2.3	44.1	5626
B1D04150BK	4	150	14.40	1.40	2.4	49.9	7053
B1D04185BK	4	185	15.75	1.60	2.6	54.5	8597
B1D04240BK	4	240	18.20	1.70	2.8	61.3	11158
B1D04300BK	4	300	20.50	1.80	3.0	67.8	13854
B1D050015BK	5	1.5	1.36	0.70	1.8	12.5	230
B1D050025BK	5	2.5	1.74	0.70	1.8	13.5	292
B1D050040BK	5	4	2.22	0.70	1.8	14.8	393
B1D050060BK	5	6	2.71	0.70	1.8	16.1	505
B1D05010BK	5	10	3.85	0.70	1.8	19.8	791
B1D05016BK	5	16	4.70	0.70	1.8	22.1	1118
B1D05025BK	5	25	5.85	0.90	1.8	26.7	1691
B1D05035BK	5	35	6.90	0.90	1.8	29.5	2225
B1D05050BK	5	50	8.10	1.00	2.0	33.7	2977
B1D05070BK	5	70	9.70	1.10	2.1	39.4	4199
B1D05095BK	5	95	11.40	1.10	2.3	44.4	5642

## ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	CURRENT CARRYING CAPACITY A		MAXIMUM CONDUCTOR DC RESISTANCE AT AT 20°C ohm/km
	Ground	Air	
1.5	30	24	12.1
2.5	24	32	7.41
4	52	42	4.61
6	64	53	3.08
10	86	73	1.83
16	111	96	1.15
25	143	130	0.727
35	173	160	0.524
50	205	195	0.387
70	252	247	0.268
95	303	305	0.193
120	346	355	0.153
150	390	407	0.124

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.