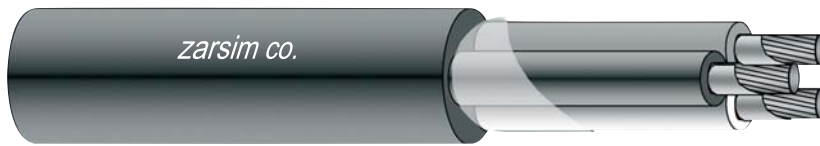


BI 0.6/1 kV

Unarmoured Fire Resistant Power and Control Cable

Cu/MGT/XLPE/HF

Max. conductor temperature: 90°C



Application:

- Used in the ships for alarm, control, general power, emergency and critical systems. Also can be used for indoor and outdoor applications

Standard:

- | | |
|------------------|----------------------------|
| ■ IEC 60092-353 | Design guidelines |
| ■ IEC 60228 | Conductor |
| ■ IEC 60092-360 | Insulation & sheath |
| ■ IEC 60332-1-2 | Flame retardant properties |
| ■ IEC 60332-3-22 | Flame retardant properties |
| ■ IEC 60331-21 | Fire resistant properties |
| ■ IEC 60754-1,2 | Halogen free properties |
| ■ IEC 61034-1,2 | Smoke emission properties |

Construction:

- | | |
|--------------------|--|
| ■ Conductor | Plain or tinned annealed copper, IEC 60228 class 2 or class 5 |
| ■ Insulation | Mica tape + halogen free cross-linked polyethylene XLPE, IEC 60092-360 |
| ■ Fillers (if any) | Based on halogen free material |
| ■ Outer sheath | Flame retardant halogen free polyolefin compound, SHF1, IEC 60092-360 |

Core identification:

- | | |
|---------------------------------|--|
| ■ 1 core | Black |
| ■ 2 cores | Blue - Brown |
| ■ 3 cores | Black - Brown - Grey |
| ■ 4 cores | Black - Blue - Brown - Grey |
| ■ 5 cores | Black - Blue - Brown - Grey - Black |
| ■ 6 cores and more | White with black numbers |
| ■ with yellow/green (optional): | |
| ■ 2 cores + earth (3G) | Yellow/green - Blue - Brown |
| ■ 3 cores + earth (3G) | Yellow/green - Black - Brown - Grey |
| ■ 4 cores + earth (3G) | Yellow/green - Black - Blue - Brown - Grey |

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Range and dimensions

Number of cores x conductor cross-section	Conductor diameter	Insulation thickness	Outer sheath thickness	Outer sheath diameter	Resistance at 20°C Max.	Weight Approx.
mm ²	mm	mm	mm	mm	Ohm/km	kg/km
1 x 1.5	1.6	0.7	1.0	5.4 ± 0.5	12.1	45
1 x 2.5	2.0	0.7	1.0	5.8 ± 0.5	7.41	65
1 x 4	2.5	0.7	1.0	6.3 ± 0.5	4.61	85
1 x 6	3.1	0.7	1.0	6.9 ± 0.5	3.08	100
1 x 10	4.0	0.7	1.0	7.8 ± 0.5	1.83	150
1 x 16	5.0	0.7	1.1	9.0 ± 0.5	1.15	220
1 x 25	6.3	0.9	1.2	10.9 ± 0.8	0.727	340
1 x 35	7.5	0.9	1.2	12.1 ± 0.8	0.542	435
1 x 50	8.7	1.0	1.3	13.7 ± 0.8	0.387	575
1 x 70	10.5	1.1	1.3	15.7 ± 0.8	0.268	805
1 x 95	12.4	1.1	1.4	17.8 ± 0.8	0.193	1085
1 x 120	14.0	1.2	1.5	19.8 ± 0.8	0.153	1345
1 x 150	16.0	1.4	1.0	22.5 ± 1	0.124	1660
1 x 185	17.8	1.6	1.1	24.9 ± 1	0.099	2060
1 x 240	20.3	1.7	1.1	27.9 ± 1	0.075	2660
1 x 300	22.9	1.8	1.2	29.8 ± 1	0.060	3290
2 x 1.5	1.6	0.7	1.1	9.0 ± 0.5	12.1	100
2 x 2.5	2.0	0.7	1.1	9.8 ± 0.5	7.41	125
2 x 4	2.5	0.7	1.2	11.6 ± 0.8	4.61	185
2 x 6	3.1	0.7	1.2	12.8 ± 0.8	3.08	230
2 x 10	4.0	0.7	1.3	14.9 ± 0.8	1.83	345
2 x 16	5.0	0.7	1.4	17.1 ± 0.8	1.15	485
2 x 25	6.3	0.9	1.5	20.6 ± 0.8	0.727	755
2 x 35	7.5	0.9	1.6	23.0 ± 0.8	0.542	990
3 x 1.5	1.6	0.7	1.1	9.6 ± 0.5	12.1	125
3 G 1.5	1.6	0.7	1.1	9.6 ± 0.5	12.1	125
3 x 2.5	2.0	0.7	1.1	10.5 ± 0.8	7.41	170
3 G 2.5	2.0	0.7	1.1	10.5 ± 0.8	7.41	170
3 x 4	2.5	0.7	1.2	11.7 ± 0.8	4.61	230
3 x 6	3.1	0.7	1.2	13.0 ± 0.8	3.08	310



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mm ²	mm	mm	mm	mm	Ohm/km	kg/km
3 x 10	4.0	0.7	1.3	15.2 ± 0.8	1.83	455
3 x 16	5.0	0.7	1.4	17.5 ± 0.8	1.15	665
3 x 25	6.3	0.9	1.6	22.1 ± 1	0.727	1045
3 x 35	7.5	0.9	1.7	24.9 ± 1	0.542	1350
3 x 50	8.7	1.0	1.8	28.6 ± 1	0.387	1820
3 x 70	10.5	1.1	2.0	33.1 ± 1	0.268	2545
3 x 95	12.4	1.1	2.1	37.4 ± 1.2	0.193	3425
4 x 1.5	1.6	0.7	1.1	10.5 ± 0.8	12.1	150
4 G 1.5	1.6	0.7	1.1	10.5 ± 0.8	12.1	150
4 x 2.5	2.0	0.7	1.2	11.6 ± 0.8	7.41	220
4 G 2.5	2.0	0.7	1.2	11.6 ± 0.8	7.41	220
4 x 10	4.0	0.7	1.4	16.9 ± 0.8	1.83	600
4 x 25	6.3	0.9	1.6	23.8 ± 1	0.727	1365
4 x 35	7.5	0.9	1.8	27.1 ± 1	0.524	1800
4 x 50	8.7	1.0	1.3	31.7 ± 1	0.387	2370
4 x 70	10.5	1.1	1.4	36.9 ± 1.2	0.268	3330
5 x 1.5	1.6	0.7	1.2	12.0 ± 0.8	12.1	190
6 x 1.5	1.6	0.7	1.2	12.5 ± 0.8	12.1	230
7 x 1.5	1.6	0.7	1.2	13.0 ± 0.8	12.1	240
8 x 1.5	1.6	0.7	1.3	13.6 ± 0.8	12.1	280
10 x 1.5	1.6	0.7	1.3	14.1 ± 0.8	12.1	350
12 x 1.5	1.6	0.7	1.4	17.4 ± 0.8	12.1	425
16 x 1.5	1.6	0.7	1.5	19.6 ± 0.8	12.1	540
19 x 1.5	1.6	0.7	1.5	20.6 ± 1	12.1	620
24 x 1.5	1.6	0.7	1.6	24.3 ± 1	12.1	810
27 x 1.5	1.6	0.7	1.7	25.0 ± 1	12.1	900
37 x 1.5	1.6	0.7	1.8	28.1 ± 1	12.1	1100

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mm ²	mm	mm	mm	mm	Ohm/km	kg/km
5 x 2.5	2.0	0.7	1.2	13.4 ± 0.8	7.41	260
6 x 2.5	2.0	0.7	1.2	14.0 ± 0.8	7.41	350
7 x 2.5	2.0	0.7	1.3	14.7 ± 0.8	7.41	340
8 x 2.5	2.0	0.7	1.3	15.6 ± 0.8	7.41	400
10 x 2.5	2.0	0.7	1.4	18.2 ± 0.8	7.41	490
12 x 2.5	2.0	0.7	1.5	19.7 ± 0.8	7.41	600
16 x 2.5	2.0	0.7	1.6	22.1 ± 1	7.41	770
19 x 2.5	2.0	0.7	1.6	23.3 ± 1	7.41	890
24 x 2.5	2.0	0.7	1.8	27.7 ± 1	7.41	1150
27 x 2.5	2.0	0.7	1.8	28.4 ± 1	7.41	1260
37 x 2.5	2.0	0.7	1.9	32.0 ± 1	7.41	1670