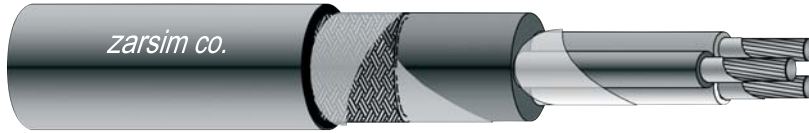


# BFOI 0.6/1 kV

Armoured Fire Resistant Power and Control Cable

Cu/MGT/XLPE/BED/CWB/HF

Max. conductor temperature 90°C



### Application:

- Used in the ships for alarm, control, general power, emergency and critical systems, where protection is required. 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 |
| ■ Bedding      | Flame retardant halogen free polyolefin compound, extruded or lapped   |
| ■ Armour       | Plain or tinned copper wire braid                                      |
| ■ 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	Inner covering thickness	Armour wire diameter	Outer sheath thickness	Outer sheath diameter	Resistance at 20°C Max.	Weight Approx.
mm <sup>2</sup>	mm	mm	mm	mm	mm	mm	Ohm/km	kg/km
3 x 1.5	1.6	0.7	0.4	0.2	1.2	11.3 ± 0.8	12.1	180
3 G 1.5	1.6	0.7	0.4	0.2	1.2	11.3 ± 0.8	12.1	180
3 x 2.5	2.0	0.7	0.4	0.2	1.2	12.4 ± 0.8	7.41	230
3 G 2.5	2.0	0.7	0.4	0.2	1.2	12.4 ± 0.8	7.41	230
3 x 4	2.5	0.7	0.4	0.3	1.3	14.0 ± 0.8	4.61	320
3 x 6	3.1	0.7	0.4	0.3	1.3	15.3 ± 0.8	3.08	400
3 x 10	4.0	0.7	0.4	0.3	1.4	17.5 ± 0.8	1.83	570
3 x 16	5.0	0.7	0.4	0.3	1.5	20.0 ± 1	1.15	800
3 x 25	6.3	0.9	0.4	0.3	1.6	23.8 ± 1	0.727	1190
3 x 35	7.5	0.9	0.4	0.3	1.7	26.4 ± 1	0.542	1540
3 x 50	8.7	1.0	0.4	0.3	1.9	30.2 ± 1	0.387	2010
3 x 16	5.0	0.7	0.4	0.3	1.5	20.0 ± 1	1.15	800
3 x 25	6.3	0.9	0.4	0.3	1.6	23.8 ± 1	0.727	1190
3 x 35	7.5	0.9	0.4	0.3	1.7	26.4 ± 1	0.542	1540
3 x 50	8.7	1.0	0.4	0.3	1.9	30.2 ± 1	0.387	2010
3 x 70	10.5	1.1	0.4	0.3	2.0	34.8 ± 1	0.268	2770
3 x 95	12.4	1.1	0.4	0.4	2.2	39.7 ± 1.2	0.193	3780
4 x 1.5	1.6	0.7	0.4	0.2	1.2	12.2 ± 0.8	12.1	210
4 G 1.5	1.6	0.7	0.4	0.2	1.2	12.2 ± 0.8	12.1	210
4 x 2.5	2.0	0.7	0.4	0.3	1.3	14.0 ± 0.8	7.41	300
4 G 2.5	2.0	0.7	0.4	0.3	1.3	14.0 ± 0.8	7.41	300
4 x 4	2.5	0.7	0.4	0.3	1.3	15.1 ± 0.8	4.61	390
4 G 4	2.5	0.7	0.4	0.3	1.3	15.1 ± 0.8	4.61	390
4 x 6	3.1	0.7	0.4	0.3	1.4	16.8 ± 0.8	3.08	500
4 G 6	3.1	0.7	0.4	0.3	1.4	16.8 ± 0.8	3.08	500
4 x 10	4.0	0.7	0.4	0.3	1.5	19.3 ± 0.8	1.83	710
4 x 16	5.0	0.7	0.4	0.3	1.5	21.7 ± 1	1.15	1000
4 x 25	6.3	0.9	0.4	0.3	1.7	26.2 ± 1	0.727	1520
4 x 35	7.5	0.9	0.4	0.3	1.8	29.1 ± 1	0.542	1980
4 x 50	8.7	1.0	0.4	0.3	2.0	33.4 ± 1	0.387	2600
4 x 70	10.5	1.1	0.4	0.4	2.2	39.1 ± 1.2	0.268	3690



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mm <sup>2</sup>	mm	mm	mm	mm	mm	mm	Ohm/km	kg/km
1 x 1.5	1.6	0.7	0.4	0.2	1.0	6.9 ± 0.5	12.1	75
1 x 2.5	2.0	0.7	0.4	0.2	1.0	7.4 ± 0.5	7.41	90
1 x 4	2.5	0.7	0.4	0.2	1.0	7.9 ± 0.5	4.61	115
1 x 6	3.1	0.7	0.4	0.2	1.1	8.6 ± 0.5	3.08	145
1 x 10	4.0	0.7	0.4	0.2	1.1	9.7 ± 0.5	1.83	190
1 x 16	5.0	0.7	0.4	0.2	1.1	10.7 ± 0.8	1.15	255
1 x 25	6.3	0.9	0.4	0.2	1.2	12.5 ± 0.8	0.727	390
1 x 35	7.5	0.9	0.4	0.3	1.3	14.1 ± 0.8	0.542	530
1 x 50	8.7	1.0	0.4	0.3	1.3	15.7 ± 0.8	0.387	670
1 x 70	10.5	1.1	0.4	0.3	1.4	17.8 ± 0.8	0.268	910
1 x 95	12.4	1.1	0.4	0.3	1.5	20.0 ± 1	0.193	1200
1 x 120	14.0	1.2	0.4	0.3	1.6	22.0 ± 1	0.153	1490
1 x 150	16.0	1.4	0.4	0.3	1.6	24.0 ± 1	0.124	1800
1 x 185	17.8	1.6	0.4	0.3	1.7	26.5 ± 1	0.099	2220
1 x 240	20.3	1.7	0.4	0.3	1.8	29.6 ± 1	0.075	2830
1 x 300	22.9	1.8	0.4	0.3	1.9	32.3 ± 1	0.060	3500
2 x 1.5	1.6	0.7	0.4	0.2	1.1	10.6 ± 0.8	12.1	150
2 x 2.5	2.0	0.7	0.4	0.2	1.2	11.8 ± 0.8	7.41	190
2 x 4	2.5	0.7	0.4	0.2	1.2	12.8 ± 0.8	4.61	230
2 x 6	3.1	0.7	0.4	0.3	1.3	14.5 ± 0.8	3.08	320
2 x 10	4.0	0.7	0.4	0.3	1.4	16.5 ± 0.8	1.83	450
2 x 16	5.0	0.7	0.4	0.3	1.4	18.7 ± 0.8	1.15	610
2 x 25	6.3	0.9	0.4	0.3	1.6	22.5 ± 1	0.727	900
2 x 35	7.5	0.9	0.4	0.3	1.7	24.9 ± 1	0.542	1150

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mm <sup>2</sup>	mm	mm	mm	mm	mm	mm	Ohm/km	kg/km
5 x 1.5	1.6	0.7	0.4	0.2	1.2	13.2 ± 0.8	12.1	250
6 x 1.5	1.6	0.7	0.4	0.3	1.2	14.0 ± 0.8	12.1	290
7 x 1.5	1.6	0.7	0.4	0.3	1.3	14.8 ± 0.8	12.1	340
8 x 1.5	1.6	0.7	0.4	0.3	1.3	15.6 ± 0.8	12.1	390
10 x 1.5	1.6	0.7	0.4	0.3	1.4	17.6 ± 0.8	12.1	450
12 x 1.5	1.6	0.7	0.4	0.3	1.4	19.0 ± 0.8	12.1	540
16 x 1.5	1.6	0.7	0.4	0.3	1.5	21.2 ± 1	12.1	680
19 x 1.5	1.6	0.7	0.4	0.3	1.6	22.3 ± 1	12.1	780
24 x 1.5	1.6	0.7	0.4	0.3	1.7	26.0 ± 1	12.1	990
27 x 1.5	1.6	0.7	0.4	0.3	1.7	26.5 ± 1	12.1	1060
37 x 1.5	1.6	0.7	0.4	0.3	1.8	29.8 ± 1	12.1	1380
5 x 2.5	2.0	0.7	0.4	0.3	1.3	15.0 ± 0.8	7.41	360
6 x 2.5	2.0	0.7	0.4	0.3	1.3	15.6 ± 0.8	7.41	400
7 x 2.5	2.0	0.7	0.4	0.3	1.3	16.3 ± 0.8	7.41	440
8 x 2.5	2.0	0.7	0.4	0.3	1.4	16.8 ± 0.8	7.41	480
10 x 2.5	2.0	0.7	0.4	0.3	1.4	17.8 ± 0.8	7.41	550
12 x 2.5	2.0	0.7	0.4	0.3	1.5	21.3 ± 1	7.41	720
16 x 2.5	2.0	0.7	0.4	0.3	1.6	23.7 ± 1	7.41	910
19 x 2.5	2.0	0.7	0.4	0.3	1.7	25.0 ± 1	7.41	1050
24 x 2.5	2.0	0.7	0.4	0.3	1.8	29.2 ± 1	7.41	1340
27 x 2.5	2.0	0.7	0.4	0.3	1.8	29.8 ± 1	7.41	1440
37 x 2.5	2.0	0.7	0.4	0.3	2.0	33.7 ± 1	7.41	1900

