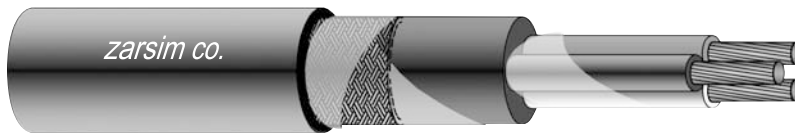


# TFOI 0.6/1 kV

Armoured Power and Control Cable

Cu/XLPE/BED/CWB/HF

Max. conductor temperature: 90°C



## Application:

- Used in the ships for control, general power and lighting, 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 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   | 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
1 x 1.5	1.6	0.7	0.4	0.2	1.0	6.4 ± 0.5	12.1	65
1 x 2.5	2.0	0.7	0.4	0.2	1.0	6.8 ± 0.5	7.41	75
1 x 4	2.5	0.7	0.4	0.2	1.0	7.3 ± 0.5	4.61	95
1 x 6	3.1	0.7	0.4	0.2	1.0	7.8 ± 0.5	3.08	120
1 x 10	4.0	0.7	0.4	0.2	1.1	9.0 ± 0.5	1.83	170
1 x 16	5.0	0.7	0.4	0.2	1.1	10.0 ± 0.8	1.15	240
1 x 25	6.3	0.9	0.4	0.2	1.2	11.9 ± 0.8	0.727	365
1 x 35	7.5	0.9	0.4	0.2	1.2	13.1 ± 0.8	0.542	470
1 x 50	8.7	1.0	0.4	0.3	1.3	15.1 ± 0.8	0.387	640
1 x 70	10.5	1.1	0.4	0.3	1.4	17.3 ± 0.8	0.268	880
1 x 95	12.4	1.1	0.4	0.3	1.5	19.3 ± 0.8	0.193	1150
1 x 120	14.0	1.2	0.4	0.3	1.5	21.1 ± 1	0.153	1430
1 x 150	16.0	1.4	0.4	0.3	1.6	23.4 ± 1	0.124	1730
1 x 185	17.8	1.6	0.4	0.3	1.7	25.8 ± 1	0.099	2155
1 x 240	20.3	1.7	0.4	0.3	1.8	28.8 ± 1	0.075	2775
1 x 300	22.9	1.8	0.4	0.3	1.9	31.7 ± 1	0.060	3410
2 x 1.5	1.6	0.7	0.4	0.2	1.1	9.6 ± 0.5	12.1	125
2 x 2.5	2.0	0.7	0.4	0.2	1.1	10.4 ± 0.8	7.41	150
2 x 4	2.5	0.7	0.4	0.2	1.2	11.7 ± 0.8	4.61	200
2 x 6	3.1	0.7	0.4	0.2	1.2	12.7 ± 0.8	3.08	260
2 x 10	4.0	0.7	0.4	0.3	1.3	15.2 ± 0.8	1.83	395
2 x 16	5.0	0.7	0.4	0.3	1.4	17.5 ± 0.8	1.15	550
2 x 25	6.3	0.9	0.4	0.3	1.5	21.0 ± 1	0.727	820
2 x 35	7.5	0.9	0.4	0.3	1.6	23.5 ± 1	0.542	1070



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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	1.1	10.1 ± 0.8	12.1	145
3 G 1.5	1.6	0.7	0.4	0.2	1.1	10.1 ± 0.8	12.1	145
3 x 2.5	2.0	0.7	0.4	0.2	1.1	10.9 ± 0.8	7.41	180
3 G 2.5	2.0	0.7	0.4	0.2	1.1	10.9 ± 0.8	7.41	180
3 x 4	2.5	0.7	0.4	0.2	1.2	12.3 ± 0.8	4.61	250
3 x 6	3.1	0.7	0.4	0.2	1.2	13.3 ± 0.8	3.08	320
3 x 10	4.0	0.7	0.4	0.3	1.3	16.1 ± 0.8	1.83	510
3 x 16	5.0	0.7	0.4	0.3	1.4	18.3 ± 0.8	1.15	720
3 x 25	6.3	0.9	0.4	0.3	1.6	22.5 ± 1	0.727	1090
3 x 35	7.5	0.9	0.4	0.3	1.7	25.3 ± 1	0.542	1430
3 x 50	8.7	1.0	0.4	0.3	1.8	28.6 ± 1	0.387	1885
3 x 70	10.5	1.1	0.4	0.3	2.0	33.3 ± 1	0.268	2630
3 x 95	12.4	1.1	0.4	0.4	2.2	38.2 ± 1.2	0.193	3625
4 x 1.5	1.6	0.7	0.4	0.2	1.1	10.8 ± 0.8	12.1	175
4 G 1.5	1.6	0.7	0.4	0.2	1.1	10.8 ± 0.8	12.1	175
4 x 2.5	2.0	0.7	0.4	0.2	1.2	12.0 ± 0.8	7.41	235
4 G 2.5	2.0	0.7	0.4	0.2	1.2	12.0 ± 0.8	7.41	235
4 x 4	2.5	0.7	0.4	0.3	1.3	13.7 ± 0.8	4.61	330
4 G 4	2.5	0.7	0.4	0.3	1.3	13.7 ± 0.8	4.61	330
4 x 6	3.1	0.7	0.4	0.3	1.3	15.1 ± 0.8	3.08	430
4 G 6	3.1	0.7	0.4	0.3	1.3	15.1 ± 0.8	3.08	430
4 x 10	4.0	0.7	0.4	0.3	1.4	17.7 ± 0.8	1.83	645
4 x 16	5.0	0.7	0.4	0.3	1.5	20.2 ± 1	1.15	910
4 x 25	6.3	0.9	0.4	0.3	1.7	24.8 ± 1	0.727	1400
4 x 35	7.5	0.9	0.4	0.3	1.8	27.8 ± 1	0.542	1855
4 x 50	8.7	1.0	0.4	0.3	1.9	31.6 ± 1	0.387	2430
4 x 70	10.5	1.1	0.4	0.4	2.1	37.3 ± 1.2	0.268	3500
5 x 1.5	1.6	0.7	0.4	0.2	1.2	11.9 ± 0.8	12.1	210
6 x 1.5	1.6	0.7	0.4	0.2	1.2	12.5 ± 0.8	12.1	230
7 x 1.5	1.6	0.7	0.4	0.2	1.2	12.8 ± 0.8	12.1	250
8 x 1.5	1.6	0.7	0.4	0.3	1.3	14.6 ± 0.8	12.1	335
10 x 1.5	1.6	0.7	0.4	0.3	1.3	15.9 ± 0.8	12.1	390



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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
12 x 1.5	1.6	0.7	0.4	0.3	1.4	17.0±0.8	7.41	580
16 x 1.5	1.6	0.7	0.4	0.3	1.4	18.6±0.8	7.41	720
19 x 1.5	1.6	0.7	0.4	0.3	1.5	19.7±0.8	7.41	820
24 x 1.5	1.6	0.7	0.4	0.3	1.6	22.9±1	7.41	1060
27 x 1.5	1.6	0.7	0.4	0.3	1.6	23.4±1	7.41	1150
37 x 1.5	1.6	0.7	0.4	0.3	1.7	26.1±1	7.41	1490
6 x 2.5	2.0	0.7	0.4	0.3	1.2	13.7±0.8	7.41	320
7 x 2.5	2.0	0.7	0.4	0.3	1.3	14.5±0.8	7.41	360
8 x 2.5	2.0	0.7	0.4	0.3	1.4	15.2±0.8	7.41	410
10 x 2.5	2.0	0.7	0.4	0.3	1.4	16.5±0.8	7.41	500
12 x 2.5	2.0	0.7	0.4	0.3	1.4	18.6±0.8	7.41	580
16 x 2.5	2.0	0.7	0.4	0.3	1.5	20.7±1	7.41	720
19 x 2.5	2.0	0.7	0.4	0.3	1.5	21.7±1	7.41	820
24 x 2.5	2.0	0.7	0.4	0.3	1.7	25.5±1	7.41	1060
27 x 2.5	2.0	0.7	0.4	0.3	1.7	26.0±1	7.41	1150
37 x 2.5	2.0	0.7	0.4	0.3	1.8	29.1±1	7.41	1490

