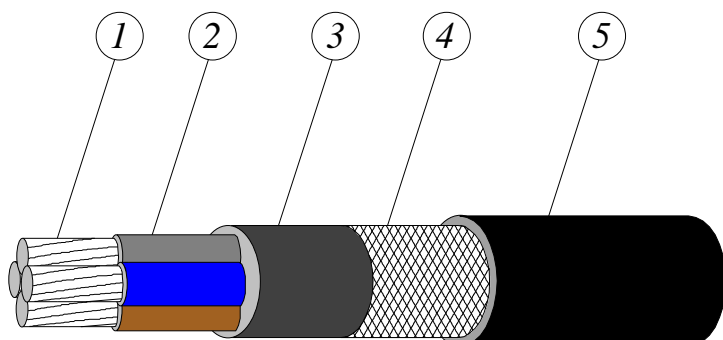


## Power cable, HUSO-TIOI 0,6/1kV, Braided



## Halogen-free cables HUSO-TIOI 0,6/1kV

### Flame retardant

Power cable

Maximum operating  
Conductor temperature : 85°C

Operating voltage Uo/U : 0,6/1kV

### Application

Armoured cable for fixed installations in ships. Where cable protection is required. Control, general power and lighting systems. Can be installed and operated both indoors and outdoors.

### Standards applied

IEC: 60092-353	- Design guidelines
IEC: 60332-1	- Flame retardance
IEC: 60332-3/AF	- Flame retardance
IEC: 60754-1,2	- Halogen free properties
IEC: 61034-1,2	- Low smoke properties

## CONSTRUCTION

	CODE LETTER	
<b>Conductor</b>		Annealed stranded circular non-compacted copper (1)
<b>Insulation</b>	<b>T</b>	Cross-linked Polyethylene, XLPE (2)
<b>Inner sheath</b>	<b>I</b>	Flame retardant halogen-free thermoplastic compound, SHF1 (3)
<b>Armour</b>	<b>O</b>	Tinned Copper Wire Braid (4)
<b>Outer sheath</b>	<b>I</b>	Flame retardant halogen-free thermoplastic compound, SHF1 (5)
<b>Marking</b>		E.g.: "meter" "year" DRAKA KABEL HUSO-TIOI 0,6/1kV 3×10/10 mm <sup>2</sup> IEC 60332-3/A ShipLine
<b>Colour</b>		Black

### Core identification (CENELEC HD 308S2):

One core	Black
Two cores	Blue - Brown
Three cores	Brown - Black - Grey
Four cores	Blue - Brown - Black - Grey
Five cores	Blue - Brown - Black - Grey - Black
Six cores and above	Black with white numbers

### with yellow/green (optional):

Two cores + earth (3G)	Yellow/green - Blue - Brown
Three cores + earth (4G)	Yellow/green - Brown - Black - Grey
Four cores + earth (5G)	Yellow/green - Blue - Brown - Black - Grey



## RANGE AND DIMENSIONS: HUSO-TIOI 0,6/1kV Power cable

No. of cores and cond. area (mm <sup>2</sup> )	Cond. diam. approx. (mmØ)	Thickness of insulation (mm)	Inner sheath thickness (mm)	Diameter under armour (mmØ)	Diameter outer sheath (mmØ)	Weight of cable approx. (kg/km)	Resistance at 20°C (Ohm/km)	Reactance at 50Hz (Ohm/km)	Current rating at 45°C (A)	Short circuit rating (A)
1x 10/2,5	3,92	0,70	1,0	Appr. 7,5	10,0±0,8	205	1,83	-	67	1400
1x 16/2,5	4,97	0,70	1,0	Appr. 8,5	11,0±0,8	275	1,15	-	90	2240
1x 25/4	6,27	0,90	1,1	Appr. 10,4	13,1±0,8	405	0,727	-	120	3500
1x 35/6	7,50	0,90	1,1	Appr. 11,6	14,8±0,8	545	0,524	-	145	4900
1x 50/6	8,73	1,00	1,2	Appr. 13,3	16,4±0,8	685	0,387	-	180	7000
1x 70/6	10,53	1,10	1,3	Appr. 15,5	18,8±0,8	930	0,268	-	225	9800
1x 95/10	12,43	1,10	1,3	Appr. 17,4	20,7±1,0	1200	0,193	-	275	13300
1x 120/10	13,98	1,20	1,4	Appr. 19,3	22,9±1,0	1490	0,153	-	320	16800
1x 150/16	15,51	1,40	1,5	Appr. 21,5	25,0±1,0	1800	0,124	-	365	21000
1x 185/16	17,36	1,60	1,5	Appr. 23,7	27,5±1,0	2210	0,0991	-	415	25900
2x 1,5/4	1,57	0,70	1,0	Appr. 8,6	11,3±0,8	200	12,1	0,119	17	210
2x 2,5/4	2,00	0,70	1,1	Appr. 9,6	12,4±0,8	250	7,41	0,110	24	350
2x 4/6	2,53	0,70	1,1	Appr. 10,7	13,9±0,8	345	4,61	0,104	32	560
2x 6/6	3,07	0,70	1,2	Appr. 12,0	15,2±0,8	425	3,08	0,097	41	840
2x 10/10	3,92	0,70	1,2	Appr. 13,7	17,0±0,8	565	1,83	0,091	57	1400
2x 16/16	4,97	0,70	1,3	Appr. 16,0	19,8±0,8	810	1,15	0,088	77	2240
3x 1,5/4	1,57	0,70	1,1	Appr. 9,2	11,9±0,8	230	12,1	0,119	14	210
3x 2,5/4	2,00	0,70	1,1	Appr. 10,2	13,0±0,8	285	7,41	0,110	20	350
3x 4/6	2,53	0,70	1,1	Appr. 11,3	14,5±0,8	395	4,61	0,104	27	560
3x 6/6	3,07	0,70	1,2	Appr. 12,7	15,9±0,8	485	3,08	0,097	34	840
3x 10/10	3,92	0,70	1,3	Appr. 14,7	18,0±0,8	680	1,83	0,091	47	1400
3x 16/16	4,97	0,70	1,3	Appr. 17,0	20,8±1,0	955	1,15	0,088	63	2240
3x 25/16	6,27	0,90	1,5	Appr. 21,1	24,6±1,0	1360	0,727	0,085	84	3500
3x 35/16	7,50	0,90	1,6	Appr. 23,9	27,7±1,0	1750	0,524	0,085	100	4900
3x 50/25	8,73	1,00	1,7	Appr. 28,3	32,7±1,5	2435	0,387	0,085	125	7000
3x 70/35	10,53	1,10	1,9	Appr. 33,1	37,7±1,5	3360	0,268	0,085	160	9800
3x 95/50	12,43	1,10	2,0	Appr. 37,8	43,3±2,0	4570	0,193	0,082	195	13300
3x 120/60	13,93	1,20	2,2	Appr. 42,0	47,7±2,0	5690	0,153	0,082	225	16800
3x150/70	15,51	1,40	2,3	Appr. 46,3	52,2±2,0	6785	0,124	0,082	255	21000
4x 1,5/4	1,57	0,70	1,1	Appr. 10,0	12,8±0,8	265	12,1	0,135	14	210
4x 2,5/6	2,00	0,70	1,1	Appr. 11,1	14,3±0,8	360	7,41	0,123	20	350
4x 4/6	2,53	0,70	1,2	Appr. 12,6	15,8±0,8	460	4,61	0,116	27	560
4x 6/6	3,07	0,70	1,2	Appr. 13,9	17,2±0,8	580	3,08	0,110	34	840
4x 10/10	3,92	0,70	1,3	Appr. 16,1	19,4±0,8	800	1,83	0,104	47	1400
4x 16/16	4,97	0,70	1,4	Appr. 18,9	22,9±1,0	1165	1,15	0,101	63	2240
5x 1,5/4	1,57	0,70	1,1	Appr. 11,0	13,7±0,8		12,1	-	12	210
6x 1,5/6	1,57	0,70	1,1	Appr. 11,4	14,6±0,8	335	12,1	-	10	210
7x 1,5/6	1,57	0,70	1,1	Appr. 11,5	14,7±0,8	350	12,1	-	10	210
8x 1,5/6	1,57	0,70	1,2	Appr. 12,7	15,9±0,8	390	12,1	-	9	210
10x 1,5/10	1,57	0,70	1,2	Appr. 14,6	17,9±0,8	470	12,1	-	9	210
12x 1,5/10	1,57	0,70	1,3	Appr. 15,3	18,6±0,8	520	12,1	-	9	210
16x 1,5/10	1,57	0,70	1,3	Appr. 17,0	20,3±1,0	640	12,1	-	8	210
19x 1,5/10	1,57	0,70	1,4	Appr. 18,1	21,6±1,0	725	12,1	-	8	210

### Correction factors for different ambient temperatures:

Ambient temp. °C	25	30	35	40	45	50	55	60	65	70	75
Rating factors	1,22	1,17	1,12	1,06	1,00	0,94	0,87	0,79	0,71	0,61	0,5

### Installation recommendations:

In accordance with IEC 60092-352

Minimum bending radius		Maximum pulling Tension	Minimum installation temperature
During installation	Fixed installed	50 N x total cross section of conductors	- 10 °C
8 x cable diameter	6 x cable diameter		

We reserve the right to alter this specification without notice.

