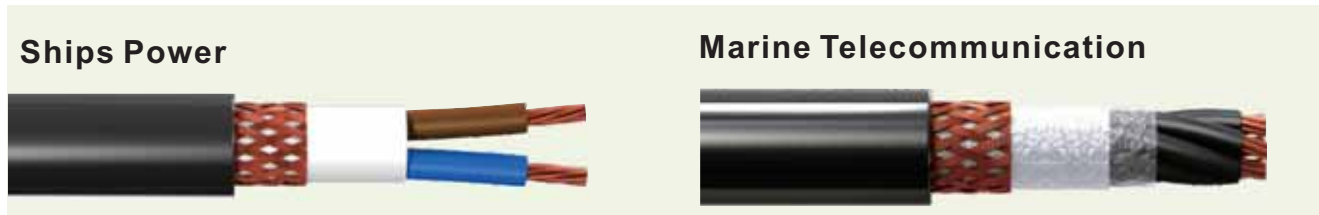


## Marine Cables



### Ships Power



#### Technical data

- Conductor operating temperature max. +85 °C
- Nominal voltage 0.6/1 kV
- Minimum bending radius 4 x cable diameter

#### Cable structure

- Conductor: bare copper
- Insulation: XLPE
- Cores wrapping in foil
- Screen: copper braiding
- Sheath: PO basis-compound

#### Application

Marine cable is for the fixed installation on marine craft and below decks. Some are for power application and some are for the communication purpose.

#### Properties

- Halogen free
- Flame retardant

#### Ships Power

AWG-no.	NO. Cores x Cross-sec. mm <sup>2</sup>	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
12	1x4	7.3	81	105
10	1x6	7.8	104	130
8	1x10	8.9	149	180
6	1x16	9.8	214	250
4	1x25	11.7	311	380
2	1x35	12.7	416	480
1	1x50	14.8	572	660
16	2x1.5	3.9	105	130
14	2x2.5	10.2	132	160
12	2x4	11.4	170	205
10	2x6	12.6	217	290
8	2x10	14.8	400	307

#### Marine Telecommunication

18	2 x 2 x 0.75	9.0	89	110
18	4 x 2 x 0.75	12.5	142	190
18	6 x 2 x 0.75	14.5	189	260
18	8 x 2 x 0.75	15.5	225	310
18	10 x 2 x 0.75	17.0	272	380
18	14 x 2 x 0.75	18.5	338	465
18	16 x 2 x 0.75	20.0	373	520

## Flat Cable



### Technical data

- **Temperature range**  
flexible -5 °C to +70 °C  
fixed installation -40 °C to 80 °C
- **Nominal voltage**  
up to 1mm<sup>2</sup> 300/500 V  
≥ 1.5mm<sup>2</sup> 450/750V
- **Test voltage**  
up to 1mm<sup>2</sup> 2000 V  
≥ 1.5mm<sup>2</sup> 2500 V
- **Minimum bending radius**  
10 x cable diameter

### Cable structure

- Conductor: bare copper
- Insulation: PVC
- Cores laying parallel
- Green-yellow earth core
- PVC/PUR/LSZH/Rubber Sheath

### Properties

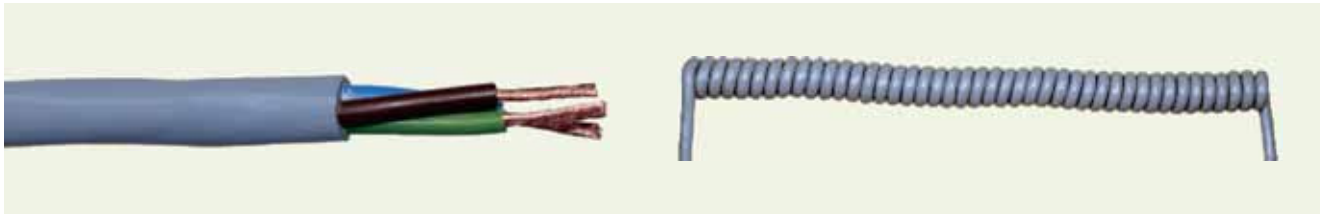
- Extensive oil resistant
- Chemical resistant
- Extremely small bending radius
- High Flexibility
- Minimum waste of space

### Application

Flat cables are used mainly as trailing cable for crane installations, floor conveyer system and self control units.

AWG-no.	No. Cores x Cross-sec. mm <sup>2</sup>	Outer Diameter mm	Copper weight kg/km	Cable Weight kg/km
18	4 G 0.75	4.3 x 12.6	28.8	90
18	5 G 0.75	4.3 x 16.1	36.0	115
18	6 G 0.75	4.3 x 19.4	43.2	141
18	9 G 0.75	4.3 x 26.4	64.8	198
18	10 G 0.75	4.3 x 30.1	72.0	224
18	12 G 0.75	4.3 x 33.8	84.4	258
18	16 G 0.75	4.3 x 44.4	115.2	340
18	18 G 0.75	4.3 x 49.2	129.6	380

## Spiral Cable



### Technical data

- **Temperature range**  
-20 °C to +80 °C
- **Nominal voltage** 300/500 V
- **Min. insulation DC resistance**  
≥200 MOhm x km )

### Cable structure

- Conductor: bare copper
- Insulation: PVC
- Filler: chalk
- PVC/PUR

### Properties

- Good retraction force
- Flame retardant: IEC60332-1

### Application

Spiral cables are widely used in telephone, lamp and motor vehicle industry.

No. Cores x Cross-sec. mm <sup>2</sup>	Conductor Construction NO. x mm	Insulation Diameter mm	Outer Diameter mm	Spiral Diameter mm
3 x 0.25	0.10 x 30	1.3	4.2	14.5
3 x 0.75	0.10 x 90	2.4	6.5	20.0
3 x 1.00	0.15 x 52	2.5	7.2	24.0
3 x 1.50	0.15 x 80	3.0	8.2	28.0