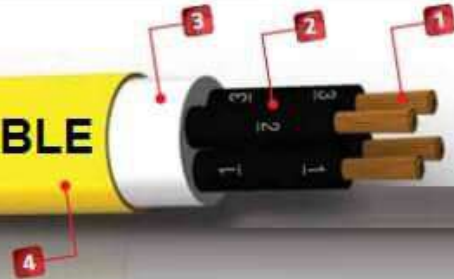


## MARINE CABLES

### POLYURETHANE, SHORE POWER CABLE

#### ROMCABLU SHORE POWER CABLE



#### CABLE STRUCTURE

- 1- **CONDUCTOR** : Electrolytic, stranded, annealed copper wire.  
IEC 60228 Class 5 (tinned on request).
- 2- **INSULATION** : PVC or PUR compound.
- 3- **BEDDING** : Rubber or PVC compound.
- 4- **OUTER SHEATH** : PUR compound. Color: Yellow, Orange or Black.

#### PRODUCTION AND TEST STANDARDS

- CONSTRUCTION** : IEC 60502 / 1
- TESTS AND MATERIAL** : IEC 60092 /350-353
- WORKING TEMPERATURE** : -35°C / + 90°C
- MIN. BENDING RADIUS (FIXED)** : 8 x (Overall Diameter)
- RATED VOLTAGE** : 0,6/1 kV
- TEST VOLTAGE** : 3,5kV



**APPLICATION** :Used as fixed installation cables in various electromechanical and electronic equipments on shore.

**ENVIRONMENT**:Usable at all conditions in marine environment such as dry, wet or oily locations.

**SAFETY**:Polyurethane compound outer sheath provides mechanical resistance.

CROSS SECTION (mm <sup>2</sup> )	OVERALL DIAMETER (mm)	APPX. WEIGHT (kg / km)	COPPER WEIGHT (kg / km)
2 x 0.75	6.6	60	15
2 x 1	6.8	70	20
2 x 1.5	7.8	90	29
2 x 2.5	9.4	130	48
2 x 4	10.8	175	77
2 x 6	12.0	230	116
2 x 10	16.4	455	192
3 x 0.75	7.2	75	22
3 x 1	7.4	85	29
3 x 1.5	8.7	110	44
3 x 2.5	10.2	155	72
3 x 4	11.7	225	116
3 x 6	13.0	295	173
3 x 10	17.8	580	288
3 x 16	20.1	790	461
3 x 25	25.6	1280	720
3 x 35	28.4	1640	1008
3 x 50	33.3	2300	1440
3 x 70	38.0	3165	2016
3 x 95	42.8	4050	2736
4 x 0.75	8.1	95	29
4 x 1	8.5	105	39
4 x 1.5	9.9	145	58
4 x 2.5	11.4	205	96
4 x 4	13.0	285	154
4 x 6	14.4	375	231
4 x 10	19.5	725	384
4 x 16	23.0	1035	615
4 x 25	28.3	1600	960
4 x 35	31.8	2110	1344
4 x 50	37.0	2915	1920
4 x 70	39.5	3725	2688
4 x 95	47.5	5150	3648



Oil Resistant



Rated Voltage



Test Voltage



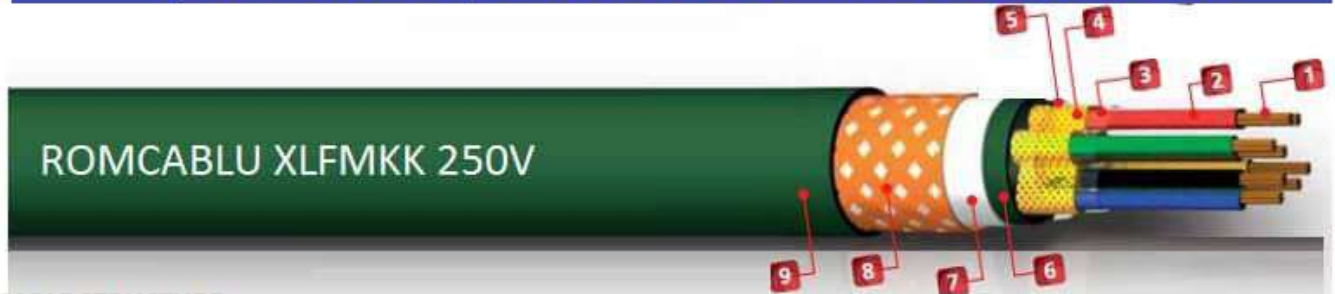
Working Temperature



Bending Radius

# MARINE CABLES

( XLFMKK 250V ) SIGNAL AND COMMUNICATION CABLE



## CABLE STRUCTURE

- 1- **CONDUCTOR**: Electrolytic, stranded, annealed copper wire. IEC 60228 Class 2 (tinned on request).
- 2- **INSULATION** : PVC insulation with Polyamide protective covering. Layup : Cores laid up in pair, pairs laid up oncentrally.
- 3- **SEPARATOR** : Separating foil over pairs.
- 4- **INDIVIDUAL SCREEN** : Screening from copper wires over twisted pairs.
- 5- **SEPARATOR** : Separating foil individual screen.
- 6- **INNER SHEATH** : PVC compound.
- 7- **SEPARATOR** : Water blocking tape.
- 8- **SCREEN** : Electrolytic copper braided screen (90% coverage).
- 9- **OUTER SHEATH** : Flame retardant, PVC based compound. Color: Green.

**PRODUCTION AND TEST STANDARDS ; CONSTRUCTION** : VG 88778 ,**TESTS AND MATERIAL** : VG 88778  
**FLAME RETARDATION** : IEC 60332 /1, IEC 60332 / 3 Cat A, **WORKING TEMPERATURE** : - 20°C / + 85°C  
**MIN. BENDING RADIUS (FIXED)** : 7 x (Overall Diameter) ,**RATED VOLTAGE** : 250V ,**TEST VOLTAGE** : 1,5kV

CROSS SECTION (mm <sup>2</sup> )	OVERALL DIAMETER (mm)	APPX. WEIGHT (kg / km)	COPPER WEIGHT (kg / km)
2 x 2 x 0.75	16	370	28.8
4 x 2 x 0.75	18.1	490	57.6
11 x 2 x 0.75	26.2	1080	158.4

**APPLICATION** :Mainly used above and below deck of the ship ,as control and communication cables in radio,radar and information systems.

**ENVIRONMENT** :Usable at all conditions in marine environment such as dry or wet locations, where electromagnetic protection is required as well.

**SAFETY** : Due to its' flame retardant feature, the part which directly contacts with fire will burn but the flame will not spread along the cable length. Thus it prevents the fire spreading around.

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ROMCABLU

SC. **ROM CABLU** SRL.



# MARINE CABLES

( LFMKK 250V ) SIGNAL AND COMMUNICATION CABLE



## CABLE STRUCTURE

- 1- **CONDUCTOR**: Electrolytic, stranded, annealed copper wire. IEC 60228 Class 2 (tinned on request).
- 2- **INSULATION** : PVC insulation with Polyamide protective covering. Layup : Cores laid up in pair, pairs laid up oncentrically.
- 3- **INNER SHEATH** : PVC compound. pairs.
- 4- **SEPARATOR** : Separating foil individual screen.
- 5- **SCREEN** : Electrolytic copper braided screen (90% coverage).
- 6- **OUTER SHEATH** : Flame retardant, PVC based compound. Color: Green.

**PRODUCTION AND TEST STANDARDS ; CONSTRUCTION** : VG 88778 ,**TESTS AND MATERIAL** : VG 88778

**FLAME RETARDATION** : IEC 60332 /1, IEC 60332 / 3 Cat A, **WORKING TEMPERATURE** : - 20°C / + 85°C

**MIN. BENDING RADIUS (FIXED)** : 7 x (Overall Diameter) ,**RATED VOLTAGE** : 250V ,**TEST VOLTAGE** : 2,0 kV

**APPLICATION** :Mainly used above and below deck of the ship ,as control and communication cables in radio,radar and information systems.

**ENVIRONMENT** :Usable at all conditions in marine environment such as dry or wet locations, where electromagnetic protection is required as well.

**SAFETY** : Due to its' flame retardant feature, the part which directly contacts with fire will burn but the flame will not spread along the cable length. Thus it prevents the fire spreading around.

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CROSS SECTION (mm <sup>2</sup> )	OVERALL DIAMETER (mm)	APPX. WEIGHT (kg / km)	COPPER WEIGHT (kg / km)
2 x 2 x 0.75	9	155	28.8
4 x 2 x 0.75	13	270	57.6
6 x 2 x 0.75	15	360	86.4
8 x 2 x 0.75	16.5	415	115.2
10 x 2 x 0.75	18	505	144
14 x 2 x 0.75	19	570	201.6

Flame Retardation

1 kV  
Test Voltage

Oil Resistant

7x  
Bending Radius

250 V  
Rated Voltage

+85  
-20  
Working Temperature





# MARINE CABLES

**MGCG - MGCG (EMC) OIL RESISTANT, FLAME RETARDANT, RUBBER, SCREENED POWER CABLE**



**CABLE STRUCTURE**

- 1- **CONDUCTOR** : Electrolytic, stranded, annealed copper wire. IEC 60228 Class 2 (Class 5 and/or tinned on request).
- 2- **INSULATION** : HF HEPR compound.
- 3- **BEDDING** : Rubber.
- 4- **SCREEN** : Electrolytic copper braided screen(90% coverage).MGCG(EMC)type is wrapped by a copper tape in addition to this braided screen.(100% coverage).
- 5- **OUTER SHEATH** : Chloroprene based flame retardant and oil resistant black outer jacket (SE1)

**PRODUCTION AND TEST STANDARDS ;CONSTRUCTION** : DIN 89158, IEC 60092/353 , **TESTS AND MATERIAL** : IEC 60092 /350-351-359  
**FLAME RETARDATION** : IEC 60332 /1, IEC 60332 / 3 Cat A ,**SHIELDING EFFECTIVENES** (for EMC type) : DIN EN 50147-1,  
**WORKING TEMPERATURE** : -40°C / +90°C **MIN. BENDING RADIUS (FIXED)** : 8 x (Overall Diameter),**RATED VOLTAGE** : 0,6/1 kV ,**TEST VOLTAGE** : 3,5 kV

**APPLICATION** :Used as fixed installation cables in various electromechanical and electronic equipments of marine vehicles. Due to its' overall screen the electromagnetic interference is minimized.

**ENVIRONMENT**: Usable at all conditions in marine environment such as dry, wet or oily locations, where electromagnetic protection is required as well.

**SAFETY** :Due to its' flame retardant feature, it prevents the fire from spreading around. Thus it protects human life and equipment, during a fire

CROSS SECTION (mm <sup>2</sup> )	OVERALL DIAMETER (mm)	APPX. WEIGHT (kg / km)	COPPER WEIGHT (kg / km)
1 x 1	5.9	59	30.6
1 x 1.5	6.2	68	35.4
1 x 2.5	6.6	81	45
1 x 4	7.2	104	64.4
1 x 6	7.7	128	83.6
1 x 10	8.8	181	127
1 x 16	10	250	189.6
1 x 25	11.9	368	286
1 x 35	12.9	466	390
1 x 50	15.2	654	566
1 x 70	17.3	889	776
1 x 95	19.1	1149	1033
1 x 120	21	1454	1290
1 x 150	23.2	1740	1581
1 x 185	25.4	2131	1931
1 x 240	28.4	2747	2485
1 x 300	31.3	3420	3113
2 x 1	10.8	184	65.2
2 x 1.5	11.6	216	74.8
2 x 2.5	12.4	256	100
2 x 4	13.6	320	137.8
2 x 6	15.2	427	212.2
2 x 10	17	565	308
2 x 16	19.6	775	443.2
2 x 25	23.2	1112	635
3 x 1	11.3	206	74.8
3 x 1.5	12.1	242	95.2
3 x 2.5	13	293	133
3 x 4	14.2	369	176.2
3 x 6	15.9	498	288.8
3 x 10	18.1	686	404
3 x 16	20.6	936	596.8
3 x 25	24.7	1376	894
3 x 35	27	1733	1211
3 x 50	30.9	2292	1672
3 x 70	35.8	3160	2277
3 x 95	40.3	4189	3148
3 x 120	44.3	5161	3871
3 x 150	49.2	6335	4784
3 x 185	54.3	7789	5878
3 x 240	61.2	10055	7532
4 x 1	12.2	241	88.4
4 x 1.5	12.9	280	115.6
4 x 2.5	13.9	343	155
4 x 4	15.9	484	265.6
4 x 6	17.1	595	342.4
4 x 10	19.5	827	514
4 x 16	22.6	1159	763.4
4 x 25	27.1	1711	1155
4 x 35	29.8	2179	1539
4 x 50	34.1	2886	2170
4 x 70	39.9	4081	3082
4 x 95	44.6	5306	4093
4 x 120	49.1	6557	5058
4 x 150	54.6	8063	6287
4 x 185	60.5	9961	7697
4 x 240	67.9	12838	9876
5 x 1	13	271	103
5 x 1.5	13.8	318	128
5 x 2.5	15.5	433	208
5 x 4	17.1	557	298
5 x 6	18.7	702	411
5 x 10	21.3	979	621
5 x 16	24.8	1382	926
5 x 25	29.8	2047	1385
6 x 1	13.7	290	115.6
6 x 1.5	15.2	384	179.4
6 x 2.5	16.4	472	155



CROSS SECTION (mm <sup>2</sup> )	OVERALL DIAMETER (mm)	APPX. WEIGHT (kg / km)	COPPER WEIGHT (kg / km)
7 x 1	13.7	294	125.2
7 x 1.5	15.2	392	193.8
7 x 2.5	16.4	486	279
8 x 1	13.9	296	169.8
8 x 1.5	15	361	208.2
8 x 2.5	16.6	471	303
9 x 1	14.8	333	179.4
9 x 1.5	15.9	404	240.6
9 x 2.5	17.7	531	327
10 x 1	15.1	344	191
10 x 1.5	16.3	420	258
10 x 2.5	18.1	549	354
12 x 1	15.6	383	210.2
12 x 1.5	17	479	286.8
12 x 2.5	18.9	631	420
14 x 1	16.3	534	248.4
14 x 1.5	17.8	696	315.6
14 x 2.5	19.7	706	468
16 x 1	17.2	480	267.6
16 x 1.5	18.6	596	362.4
16 x 2.5	20.9	802	516
19 x 1	18	535	296.4
19 x 1.5	19.7	678	405.6
19 x 2.5	21.9	905	607
20 x 1	18	565	306
20 x 1.5	19.7	717	420
20 x 2.5	22.1	965	631
21 x 1	19.1	630	333.6
21 x 1.5	20.9	798	434.4
21 x 2.5	23.3	1062	655
24 x 1	21.1	672	362.4
24 x 1.5	23.1	855	456.6
24 x 2.5	25.7	1140	746
25 x 1	21.1	690	371
25 x 1.5	23.1	880	511
25 x 2.5	25.7	1170	770
27 x 1	21.6	730	410.2
27 x 1.5	23.6	930	539.8
27 x 2.5	26.3	1240	818
30 x 1	22.5	802	439
30 x 1.5	24.6	1022	602
30 x 2.5	27.3	1370	909
32 x 1	23.2	850	458.2
32 x 1.5	25.4	1080	630.8
32 x 2.5	28.3	1455	957
36 x 1	24	930	515.6
36 x 1.5	26.3	1190	688.4
36 x 2.5	29.3	1606	1062
37 x 1	24	938	525.2
37 x 1.5	26.3	1201	702.8
37 x 2.5	29.3	1622	1086
40 x 1	25.1	1065	554
40 x 1.5	27.5	1325	774
40 x 2.5	30.7	1790	1187
42 x 1	26.1	1085	573.2
42 x 1.5	28.6	1388	802.8
42 x 2.5	31.8	1873	1235
48 x 1	27.6	1195	658.8
48 x 1.5	30.2	1535	889.2
48 x 2.5	33.7	2075	1379
60 x 1	30	1450	774
60 x 1.5	33	1870	1091



## MARINE CABLES

### FLAME RETARDANT PVC, FLAT POWER CABLE



#### CABLE STRUCTURE

- 1- **CONDUCTOR**: Electrolytic, stranded, annealed copper wire. IEC 60228 Class 2 (tinned on request).
- 2- **INSULATION** : PVC insulation
- 3- **OUTER SHEATH** : Flame retardant, PVC based compound. Color: Green.

**PRODUCTION AND TEST STANDARDS ; CONSTRUCTION** : VG 88778 ,**TESTS AND MATERIAL** : VG 88778

**FLAME RETARDATION** : IEC 60332 /1, IEC 60332 / 3 Cat A, **WORKING TEMPERATURE** : - 20°C / + 85°C

**MIN. BENDING RADIUS (FIXED)** : 6 x (Overall Diameter) ,**RATED VOLTAGE** : 0,6/1 kV **TEST VOLTAGE** : 3.5 kV

**APPLICATION** :Used as fixed installation cables in various electromechanical and electronic equipments of yachts and other marine vehicles.

**ENVIRONMENT** :Usable at all conditions in marine environment such as dry or wet locations

**SAFETY** : Due to its' flame retardant feature, it prevents the fire from spreading around. Thus it protects human life and equipment, during a fire.

CROSS SECTION (mm <sup>2</sup> )	OVERALL DIAMETER (mm)	APPX. WEIGHT (kg / km)	COPPER WEIGHT (kg / km)
2 x 0.75	4,0 - 6,3	50	15
2 x 1	4,2 - 6,7	60	20
2 x 1.5	4,9 - 7,9	85	29
2 x 2.5	5,7 - 9,3	120	48
2 x 4	6,7 - 11,0	170	77
2 x 6	7,6 - 12,4	220	116
3 x 0.75	4,0 - 8,6	70	22
3 x 1	4,2 - 9,2	85	29
3 x 1.5	5,1 - 11,2	120	44
3 x 2.5	5,9 - 13,2	170	72
3 x 4	6,7 - 15,2	235	116
3 x 6	7,6 - 17,0	315	173
4 x 0.75	4,0 - 11	90	29
4 x 1	4,2 - 11,8	105	39
4 x 1.5	5,1 - 14,2	145	58
4 x 2.5	5,9 - 16,8	215	96
4 x 4	6,7 - 19,4	305	154
4 x 6	7,6 - 21,8	405	231



Flame Retardation



Test Voltage



Oil Resistant



Bending Radius



Rated Voltage



Working Temperature

