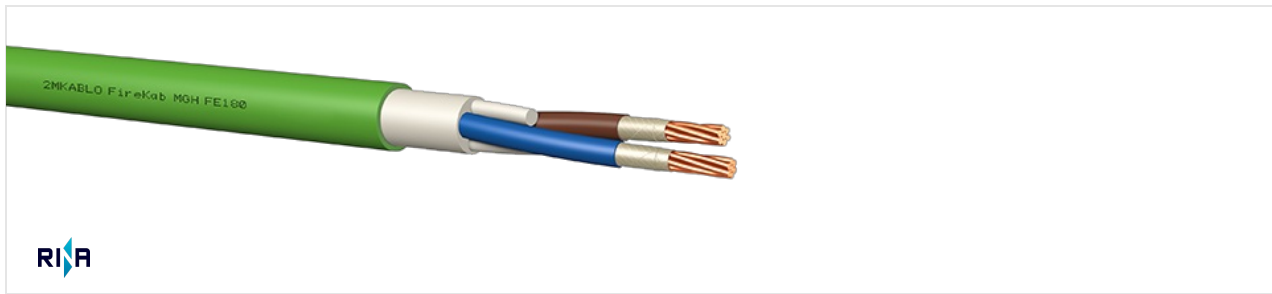


MGH FE180



Areas of Use

Used as fixed installation cable in marine vehicles. Halogen-Free and Flame Retardant construction ensure non-corrosive and highly visible environment during a fire. Also, min.180 minutes of circuit integrity under fire conditions is achieved by its special design.

Cable Construction

Flame Barrier	Mica Tape
Insulation	HEPR (IEC 60092-360)
Core Colors	According to HD 308 S2 (# of Cores $\geq 5 \Rightarrow$ White numbered)
Separator	PET Foil (HFFR filler upon request)
Outer Sheath	HFFR (IEC 60092-360 SHF1), RAL 6018 - Green
Reference Standards	IEC 60092-353
Conductor	Stranded Annealed Tinned Copper (IEC 60228, Class 2)

Technical Properties

Operating Voltage	0.6/1 (1.2) kV
Test Voltage	3.5 kV (a.c.) 8.4 kV (d.c)
Conductor Resistance	IEC/EN 60228
Insulation Resistance	$>5000 \text{ M}\Omega\text{km}$
Temperature Range	$-40^\circ\text{C} \dots +90^\circ\text{C}$
Flame Retardancy	IEC/EN 60332-1-2, IEC/EN 60332-3-22 (CAT A)
Fire Resistance	IEC 60331-21
Smoke Density	IEC/EN 61034-1+2
Amount of Halogen Acid Gas	IEC/EN 60754-1
Corrosive Gases Measurement	IEC/EN 60754-2
Min. Bending Radius (Fixed)	6 x Cable Diameter

Cross Section

Configuration / Cross-Section (mm/mm ²)	Cable Diameter (mm) ($\pm 5\%$)	Copper Weight (kg / km)	~ Cable Weight (kg / km)
1x1	5.0	10	35
1x1	5,0	10	35
2x1	10.1	20	144
2x1	10,1	20	144
3x1	10.6	29	160
3x1	10,6	29	160

4x1	11.4	38	187
4x1	11,4	38	187
5x1	12.5	47	215
5x1	12,5	47	215
6x1	13.3	57	244
6x1	13,3	57	244
7x1	13.3	66	253
7x1	13,3	66	253
8x1	13.3	75	236
8x1	13,3	75	236
9x1	14.2	85	267
9x1	14,2	85	267
10x1	14.6	94	261
10x1	14,6	94	261
12x1	15.0	112	294
12x1	15,0	112	294
14x1	16.0	131	339
14x1	16,0	131	339
16x1	16.8	149	379
16x1	16,8	149	379
18x1	17.7	168	419
18x1	17,7	168	419
19x1	17.7	178	427
19x1	17,7	178	427
20x1	17.7	187	453
20x1	17,7	187	453
21x1	28.9	196	510
21x1	28,9	196	510
24x1	20.9	225	543
24x1	20,9	225	543
25x1	20.9	233	559
25x1	20,9	233	559
27x1	21.6	252	601
27x1	21,6	252	601
30x1	22.4	280	655
30x1	22,4	280	655
32x1	23.2	299	699
32x1	23,2	299	699
36x1	24.3	336	780
36x1	24,3	336	780
37x1	24.3	346	787
37x1	24,3	346	787
40x1	25.2	373	864
40x1	25,2	373	864
42x1	26.3	392	909
42x1	26,3	392	909

48x1	27.9	448	1015
48x1	27,9	448	1015
60x1	30.8	559	1230
60x1	30,8	559	1230
1x1.5	5.2	14	42
1x1.5	5,2	14	42
2x1.5	10.7	29	166
2x1.5	10,7	29	166
3x1.5	11.2	43	186
3x1.5	11,2	43	186
4x1.5	12.3	57	226
4x1.5	12,3	57	226
5x1.5	13.3	70	255
5x1.5	13,3	70	255
6x1.5	14.2	85	292
6x1.5	14,2	85	292
7x1.5	14.2	98	305
7x1.5	14,2	98	305
8x1.5	14.6	113	301
8x1.5	14,6	113	301
9x1.5	15.5	127	341
9x1.5	15,5	127	341
10x1.5	15.9	140	336
10x1.5	15,9	140	336
12x1.5	16.5	168	381
12x1.5	16,5	168	381
14x1.5	17.3	196	428
14x1.5	17,3	196	428
16x1.5	18.5	224	490
16x1.5	18,5	224	490
18x1.5	19.4	253	542
18x1.5	19,4	253	542
19x1.5	19.4	266	554
19x1.5	19,4	266	554
20x1.5	19.4	280	588
20x1.5	19,4	280	588
21x1.5	20.5	294	648
21x1.5	20,5	294	648
24x1.5	22.9	336	705
24x1.5	22,9	336	705
25x1.5	22.9	350	726
25x1.5	22,9	350	726
27x1.5	23.6	378	779
27x1.5	23,6	378	779
30x1.5	24.5	419	852
30x1.5	24,5	419	852

32x1.5	25.4	448	910
32x1.5	25,4	448	910
36x1.5	26.5	504	1014
36x1.5	26,5	504	1014
37x1.5	26.5	517	1026
37x1.5	26,5	517	1026
40x1.5	27.6	559	1125
40x1.5	27,6	559	1125
42x1.5	28.8	587	1182
42x1.5	28,8	587	1182
48x1.5	30.5	672	1321
48x1.5	30,5	672	1321
60x1.5	33.9	839	1622
60x1.5	33,9	839	1622
1x2.5	5.7	24	53
1x2.5	5,7	24	53
2x2.5	11.7	49	206
2x2.5	11,7	49	206
3x2.5	12.5	70	242
3x2.5	12,5	70	242
4x2.5	13.5	94	287
4x2.5	13,5	94	287
5x2.5	14.7	117	328
5x2.5	14,7	117	328
6x2.5	15.6	140	379
6x2.5	15,6	140	379
7x2.5	15.6	163	397
7x2.5	15,6	163	397
8x2.5	16.4	187	412
8x2.5	16,4	187	412
9x2.5	17.6	210	469
9x2.5	17,6	210	469
10x2.5	18.1	233	465
10x2.5	18,1	233	465
12x2.5	18.8	280	531
12x2.5	18,8	280	531
14x2.5	19.9	326	608
14x2.5	19,9	326	608
16x2.5	21.0	373	684
16x2.5	21,0	373	684
18x2.5	22.1	419	760
18x2.5	22,1	419	760
19x2.5	22.1	443	734
19x2.5	22,1	443	734
20x2.5	22.1	466	827
20x2.5	22,1	466	827

21x2.5	23.4	489	910
21x2.5	23,4	489	910
24x2.5	26.0	559	989
24x2.5	26,0	559	989
25x2.5	26.0	582	1019
25x2.5	26,0	582	1019
27x2.5	26.6	629	1080
27x2.5	26,6	629	1080
30x2.5	27.8	699	1198
30x2.5	27,8	699	1198
32x2.5	28.9	745	1280
32x2.5	28,9	745	1280
36x2.5	30.2	839	1427
36x2.5	30,2	839	1427
37x2.5	30.2	862	1446
37x2.5	30,2	862	1446
40x2.5	31.5	932	1586
40x2.5	31,5	932	1586
42x2.5	32.8	978	1666
42x2.5	32,8	978	1666
48x2.5	34.9	1118	1883
48x2.5	34,9	1118	1883
1x4	6.2	38	71
1x4	6,2	38	71
2x4	12.9	75	265
2x4	12,9	75	265
3x4	13.6	113	309
3x4	13,6	113	309
4x4	14.8	150	375
4x4	14,8	150	375
5x4	16.1	187	436
5x4	16,1	187	436
1x6	6.8	56	93
1x6	6,8	56	93
2x6	14.1	113	332
2x6	14,1	113	332
3x6	14.9	168	394
3x6	14,9	168	394
4x6	26.3	225	488
4x6	26,3	225	488
5x6	18.0	280	575
5x6	18,0	280	575
1x10	7.7	94	134
1x10	7,7	94	134
2x10	16.0	187	462
2x10	16,0	187	462

3x10	16.9	280	557
3x10	16,9	280	557
4x10	18.7	373	699
4x10	18,7	373	699
5x10	20.6	466	824
5x10	20,6	466	824
1x16	8.7	149	191
1x16	8,7	149	191
2x16	16.2	299	637
2x16	16,2	299	637
3x16	19.3	448	783
3x16	19,3	448	783
4x16	21.3	597	978
4x16	21,3	597	978
5x16	23.5	746	1167
5x16	23,5	746	1167
1x25	10.6	233	292
1x25	10,6	233	292
2x25	21.8	466	940
2x25	21,8	466	940
3x25	23.1	699	1163
3x25	23,1	699	1163
4x25	25.5	932	1464
4x25	25,5	932	1464
5x25	28.3	1165	1754
5x25	28,3	1165	1754
1x35	11.6	326	380
1x35	11,6	326	380
3x35	25.4	978	1499
3x35	25,4	978	1499
4x35	28.1	1304	1888
4x35	28,1	1304	1888
1x50	13.5	466	517
1x50	13,5	466	517
3x50	29.2	1397	2008
3x50	29,2	1397	2008
4x50	32.5	1863	2548
4x50	32,5	1863	2548
1x70	15.5	652	725
1x70	15,5	652	725
3x70	34.1	1956	2815
3x70	34,1	1956	2815
4x70	37.8	2608	3574
4x70	37,8	2608	3574
1x95	17.3	885	962
1x95	17,3	885	962

3x95	38.1	2654	3699
3x95	38,1	2654	3699
4x95	42.5	3539	4720
4x95	42,5	3539	4720
1x120	19.2	1118	1210
1x120	19,2	1118	1210
3x120	42.6	3353	4703
3x120	42,6	3353	4703
4x120	47.3	4470	5937
4x120	47,3	4470	5937
1x150	21.4	1397	1493
1x150	21,4	1397	1493
3x150	47.1	4191	5722
3x150	47,1	4191	5722
4x150	52.2	5588	7262
4x150	52,2	5588	7262
1x185	23.6	1723	1845
1x185	23,6	1723	1845
3x185	52.3	5169	7093
3x185	52,3	5169	7093
4x185	58.2	6891	9061
4x185	58,2	6891	9061
1x240	26.5	2335	2413
1x240	26,5	2335	2413
3x240	59.0	6705	9243
3x240	59,0	6705	9243
4x240	64.9	8940	11684
4x240	64,9	8940	11684

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