

MGCH FE180



Areas of Use

Used as fixed installation cable in marine vehicles. Screening layer forms a shield for protection against electromagnetic interferences. Halogen Free and Flame Retardant construction ensures non-corrosive and highly visible environment during fire. In addition, 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 ≥ 5 => White numbered)
Lay-up	Cores are stranded in layers
Separator	PET Foil (HFFR filler upon request)
Overall Screen	Annealed Copper Wire Braiding (90% Coverage)
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 M. Ω xkm
Temperature Range	-40 °C.....+90 °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)	8 x Cable Diameter

Cross Section

Configuration / Cross-Section (mm/mm ²)	Cable Diameter (mm) ($\pm 5\%$)	Copper Weight (kg / km)	~ Cable Weight (kg / km)
1x2x0.5	7.4	10	73
1x2x0.5	7,4	10	73
1x4x0.5	8.2	19	103

1x4x0.5	8,2	19	103
2x2x0.5	9.4	19	101
2x2x0.5	9,4	19	101
3x2x0.5	10.8	29	144
3x2x0.5	10,8	29	144
4x2x0.5	12.3	38	175
4x2x0.5	12,3	38	175
5x2x0.5	13.4	47	207
5x2x0.5	13,4	47	207
6x2x0.5	14.5	57	235
6x2x0.5	14,5	57	235
7x2x0.5	14.5	66	248
7x2x0.5	14,5	66	248
8x2x0.5	15.5	76	280
8x2x0.5	15,5	76	280
10x2x0.5	17.5	95	352
10x2x0.5	17,5	95	352
12x2x0.5	18.4	113	399
12x2x0.5	18,4	113	399
14x2x0.5	19.6	132	444
14x2x0.5	19,6	132	444
16x2x0.5	20.6	170	488
16x2x0.5	20,6	170	488
18x2x0.5	21.8	179	540
18x2x0.5	21,8	179	540
19x2x0.5	22.2	189	562
19x2x0.5	22,2	189	562
20x2x0.5	22.7	226	584
20x2x0.5	22,7	226	584
24x2x0.5	24.6	226	678
24x2x0.5	24,6	226	678
30x2x0.5	27.3	349	844
30x2x0.5	27,3	349	844
37x2x0.5	29.8	414	986
37x2x0.5	29,8	414	986
44x2x0.5	31.9	423	1124
44x2x0.5	31,9	423	1124
60x2x0.5	36.8	565	1517
60x2x0.5	36,8	565	1517
1x3x0.5	7.8	15	85
1x3x0.5	7,8	15	85
2x3x0.5	9.7	29	129
2x3x0.5	9,7	29	129
3x3x0.5	12.0	43	179
3x3x0.5	12,0	43	179
4x3x0.5	12.8	57	210

4x3x0.5	12,8	57	210
5x3x0.5	13,6	71	245
5x3x0.5	13,6	71	245
6x3x0.5	14,5	85	278
6x3x0.5	14,5	85	278
7x3x0.5	14,5	99	298
7x3x0.5	14,5	99	298
8x3x0.5	15,5	113	338
8x3x0.5	15,5	113	338
10x3x0.5	18,1	142	432
10x3x0.5	18,1	142	432
12x3x0.5	19,4	170	498
12x3x0.5	19,4	170	498
14x3x0.5	20,6	198	558
14x3x0.5	20,6	198	558
16x3x0.5	21,7	226	617
16x3x0.5	21,7	226	617
18x3x0.5	22,9	254	686
18x3x0.5	22,9	254	686
19x3x0.5	23,4	269	715
19x3x0.5	23,4	269	715
20x3x0.5	24,0	283	808
20x3x0.5	24,0	283	808
24x3x0.5	26,0	339	870
24x3x0.5	26,0	339	870
30x3x0.5	28,8	424	1083
30x3x0.5	28,8	424	1083
37x3x0.5	31,5	523	1279
37x3x0.5	31,5	523	1279
1x2x0.75	8,0	15	86
1x2x0.75	8,0	15	86
1x4x0.75	9,0	29	123
1x4x0.75	9,0	29	123
2x2x0.75	10,4	29	133
2x2x0.75	10,4	29	133
3x2x0.75	12,1	43	182
3x2x0.75	12,1	43	182
4x2x0.75	13,4	57	213
4x2x0.75	13,4	57	213
5x2x0.75	14,8	71	254
5x2x0.75	14,8	71	254
6x2x0.75	16,0	85	289
6x2x0.75	16,0	85	289
7x2x0.75	16,0	97	309
7x2x0.75	16,0	97	309
8x2x0.75	17,1	113	348

8x2x0.75	17,1	113	348
10x2x0.75	19,4	142	439
10x2x0.75	19,4	142	439
12x2x0.75	20,5	170	502
12x2x0.75	20,5	170	502
14x2x0.75	20,8	198	562
14x2x0.75	20,8	198	562
16x2x0.75	22,9	226	620
16x2x0.75	22,9	226	620
18x2x0.75	24,2	254	687
18x2x0.75	24,2	254	687
19x2x0.75	24,7	269	717
19x2x0.75	24,7	269	717
20x2x0.75	25,3	283	746
20x2x0.75	25,3	283	746
24x2x0.75	27,4	339	871
24x2x0.75	27,4	339	871
28x2x0.75	29,6	396	1030
28x2x0.75	29,6	396	1030
37x2x0.75	33,2	523	1279
37x2x0.75	33,2	523	1279
1x3x0.75	8,1	22	108
1x3x0.75	8,1	22	108
6x3x0.75	19,1	127	402
6x3x0.75	19,1	127	402
1x2x1	8,2	19	92
1x2x1	8,2	19	92
1x4x1	8,5	38	106
1x4x1	8,5	38	106
2x2x1	9,5	38	132
2x2x1	9,5	38	132
3x2x1	12,3	57	193
3x2x1	12,3	57	193
4x2x1	13,8	76	234
4x2x1	13,8	76	234
5x2x1	15,2	95	230
5x2x1	15,2	95	230
6x2x1	16,5	113	319
6x2x1	16,5	113	319
7x2x1	16,5	132	319
7x2x1	16,5	132	319
8x2x1	17,6	151	389
8x2x1	17,6	151	389
10x2x1	20,0	189	488
10x2x1	20,0	189	488
12x2x1	21,1	226	559

12x2x1	21,1	226	559
14x2x1	22,4	264	628
14x2x1	22,4	264	628
16x2x1	23,6	302	693
16x2x1	23,6	302	693
18x2x1	25,0	309	771
18x2x1	25,0	309	771
19x2x1	25,6	358	804
19x2x1	25,6	358	804
20x2x1	26,2	377	837
20x2x1	26,2	377	837
24x2x1	28,3	452	978
24x2x1	28,3	452	978
28x2x1	30,6	527	1155
28x2x1	30,6	527	1155
30x2x1	31,6	565	1221
30x2x1	31,6	565	1221
1x2x1.5	9,3	29	118
1x2x1.5	9,3	29	118
1x4x1.5	10,5	57	167
1x4x1.5	10,5	57	167
2x2x1.5	12,3	57	161
2x2x1.5	12,3	57	161
3x2x1.5	12,4	85	229
3x2x1.5	12,4	85	229
4x2x1.5	15,2	113	297
4x2x1.5	15,2	113	297
5x2x1.5	16,8	142	357
5x2x1.5	16,8	142	357
6x2x1.5	18,3	170	418
6x2x1.5	18,3	170	418
7x2x1.5	18,3	198	453
7x2x1.5	18,3	198	453
12x2x1.5	23,3	339	728
12x2x1.5	23,3	339	728
1x2x2.5	10,4	47	150
1x2x2.5	10,4	47	150
12x2x2.5	26,0	565	981
12x2x2.5	26,0	565	981

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