MGCH



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 ensure non-corrosive and highly visible environment during a fire.

Cable Construction

Conductor	Stranded Annealed Copper (IEC/EN 60228, Class 2) (tinned copper and/or Class 5 versions are available upon request)
Insulation	HEPR (IEC 60092-360)
Core Colors	According to HD 308 S2 (# of Cores ≥5 => White numbered)
Separator	PET Foil (HFFR filler upon request)
Overall Screen	Annealed Copper Wire Braiding (90% Coverage)
Outer Sheath	HFFR (IEC 60092-360 SHF1), RAL 9005 - Black or RAL 7001 - Grey
Reference Standards	IEC 60092-353

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.Ωxkm
Temperature Range	-40 °C.....+90 °C
Flame Retardancy	IEC/EN 60332-1-2, IEC/EN 60332-3-22 (CAT A)
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/mm²)	Cable Diameter (mm) (± 5%)	Copper Weight (kg / km)	~ Cable Weight (kg / km)
10x0.75	13.2	125	207
1x1	5.8	25	54
2x1	10.7	59	179
3x1	11.2	73	197
4x1	12.1	86	230
5x1	12.9	100	255
6x1	13.6	113	285

7x1	13.6	122	292
8x1	13.8	165	281
9x1	14.7	174	313
12x1	15.4	198	306
14x1	16.1	235	335
16x1	17.0	253	388
18x1	17.8	272	419
19x1	17.8	281	429
20x1	17.8	290	439
21x1	18.7	316	464
24x1	20.7	344	532
25x1	20.7	354	541
27x1	21.2	390	569
30x1	22.1	409	621
32x1	22.8	454	652
36x1	23.6	491	705
37x1	23.6	500	715
40x1	24.7	528	773
42x1	25.6	547	813
48x1	27.1	628	905
60x1	29.5	740	1076
1x1.5	6.1	35	63
2x1.5	11.5	71	209
3x1.5	12.0	93	233
4x1.5	12.8	114	267
5x1.5	13.7	100	299
6x1.5	15.0	174	377
7x1.5	15.0	188	379
8x1.5	15.0	188	388
9x1.5	15.7	216	381
12x1.5	16.8	272	390
14x1.5	17.6	300	429
16x1.5	18.4	344	666
18x1.5	19.5	372	537
19x1.5	19.5	386	551
20x1.5	19.5	400	567
21x1.5	20.5	414	598
24x1.5	22.7	473	685
25x1.5	22.7	487	699
27x1.5	23.2	533	737
30x1.5	24.2	575	806
32x1.5	24.9	603	848
36x1.5	25.8	658	922
37x1.5	25.8	672	936
40x1.5	27.0	740	1013
42x1.5	28.1	768	1013

48x1.5	29.7	740	1076
60x1.5	32.4	1045	1424
1x2.5	6.5	44	76
2x2.5	12.5	94	248
3x2.5	12.9	128	282
4x2.5	13.8	151	328
5x2.5	15.3	201	410
6x2.5	16.2	249	462
7x2.5	16.2	272	481
8x2.5	16.4	295	447
9x2.5	17.5	319	500
10x2.5	17.9	337	462
12x2.5	18.7	400	525
14x2.5	19.5	447	594
16x2.5	20.7	493	666
18x2.5	21.7	556	729
19x2.5	21.7	581	751
20x2.5	21.7	604	776
21x2.5	22.9	627	819
24x2.5	25.2	714	936
25x2.5	25.2	738	959
27x2.5	25.8	784	1015
30x2.5	26.8	879	1110
32x2.5	27.8	926	1173
36x2.5	28.8	1019	1281
37x2.5	28.8	1042	1304
40x2.5	30.2	1138	1413
42x2.5	31.3	1185	1478
48x2.5	33.2	1325	1663
1x4	7.1	63	97
2x4	13.5	131	311
3x4	14.1	170	355
4x4	15.7	259	463
5x4	16.9	289	527
1x6	7.6	82	121
2x6	15.0	201	416
3x6	15.7	280	481
4x6	16.9	334	572
5x6	18.5	398	667
1x10	8.7	124	171
2x10	16.8	294	551
3x10	17.9	391	663
4x10	19.3	500	797
5x10	21.1	601	932
1x16	9.7	184	233
2x16	19.0	424	739

3x16	20.0	578	890
4x16	21.9	742	1092
5x16	24.1	898	1295
1x25	11.6	278	343
2x25	22.6	609	1065
3x25	24.1	867	1311
4x25	26.4	1123	1622
5x25	29.0	1342	1921
1x35	12.7	379	439
3x35	26.5	1174	1666
4x35	29.2	1495	2076
1x50	14.9	549	616
2x50	29.5	1124	1858
3x50	30.2	1620	2197
4x50	33.3	2108	2744
1x70	17.0	753	842
2x70	33.3	1524	2450
3x70	35.2	2206	3051
4x70	39.2	2995	3910
1x95	18.8	1002	1094
3x95	39.6	3061	4046
4x95	44.0	3975	5110
1x120	20.7	1252	1357
3x120	43.7	3799	4998
4x120	48.4	4953	6317
1x150	22.8	1531	1653
3x150	48.3	4687	6117
4x150	53.6	6071	7732
1x185	25.0	1874	2027
3x185	53.6	5698	7539
4x185	59.7	7471	9585
1x240	27.9	2411	2614
3x240	60.1	7304	9717
4x240	66.7	9585	12333
1x300	30.7	2995	3217
3x300	67.2	9070	12224
1x400	34.0	3926	4036
3x400	75.6	11961	15884
1x1000	53.0	9846	10435

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