

## MGCH - MGCH (EMC)

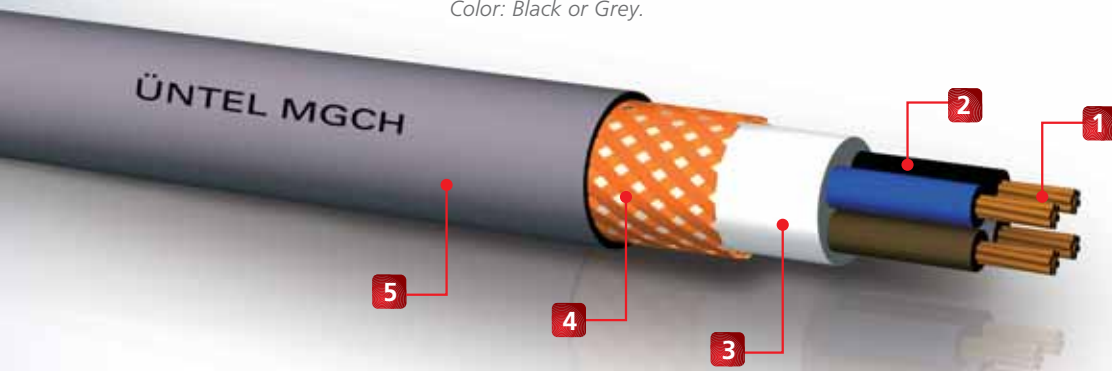
**HALOJENSİZ, ALEV YÜRÜTMİYEN EKranLI GÜÇ KABLOSU**  
**HALOGEN - FREE, FLAME RETARDANT, SCREENED POWER CABLE**

### KABLO YAPISI

- 1- İLETKEN** : Elektrolitik, tavlı ve bükülü bakır tel. IEC 60228 Sınıf 2 (Sınıf 5 ve/veya kalaylı isteğe bağlı).  
**2- İZOLASYON** : HF HEPR bileşimi.  
**3- DOLGU** : Halojensiz bileşik.  
**4- EKran** : Elektrolitik bakır tellerden örülmüş ekran (kapatma oranı: %90). MGCH (EMC) tipinde ekrana ilave olarak %100 kapatma oranlı bakır bant mevcuttur.  
**5- DIŞ KILIF** : Halojensiz, alev iletmeyen, termoplastik poliolefin bazlı bileşik (HM4 / SHF1) - HD 604.  
Renk: Siyah veya Gri.

### 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** : Halogen free compound.  
**4- SCREEN** : Electrolytic copper braided screen (90% coverage). MGCH (EMC) type is wrapped by a copper tape in addition to this screen (100% coverage).  
**5- OUTER SHEATH** : Halogen-free, flame retardant, thermoplastic polyolefin based compound (HM4 / SHF1) - HD 604.  
Color: Black or Grey.



### ÜRETİM VE TEST STANDARTLARI / PRODUCTION AND TEST STANDARDS

<b>KONSTRÜKSİYON / CONSTRUCTION</b>	: DIN 89158, IEC 60092/353
<b>TESTLER VE MALZEME / TESTS AND MATERIAL</b>	: IEC 60092 /350-351-359
<b>ALEV YÜRÜTMEME / FLAME RETARDATION</b>	: IEC 60332 /1, IEC 60332 / 3 Cat A
<b>HALOJEN MİKTARI / HALOGEN CONTENT</b>	: IEC 60754 / 1 - 2
<b>DUMAN YOĞUNLUĞU / SMOKE DENSITY</b>	: IEC 61034 / 1-2 ( DIN EN 50268/1-2)
<b>EKRAN ETKİNLİĞİ (EMC Tipi İçin) / SHIELDING EFFECTIVENES (for EMC type)</b>	: DIN EN 50147-1
<b>İŞLETME SICAKLIĞI / WORKING TEMPERATURE</b>	: -40°C / + 90°C
<b>MİN. BÜKÜM YARIÇAPI (SABİT) / MIN. BENDING RADIUS (FIXED)</b>	: 8 x (Kablo Çapı / Overall Diameter)
<b>ANMA GERİLİMLERİ / RATED VOLTAGE</b>	: 0,6 / 1 kV
<b>TEST GERİLİMİ / TEST VOLTAGE</b>	: 3,5 kV

### KULLANIM ALANI

Her türlü deniz aracında elektromekanik, elektronik cihazlarda ve panolarda sabit bağlantı kablosu olarak kullanılır. Ekranlı olması sayesinde çevre ile elektromanyetik etkileşim minimuma indirilmiştir.

### ORTAM

Kuru, ıslak, yağlı ve tüm deniz ortamlarında kullanılabilir.

### GÜVENLİK

Herhangi bir yangın durumunda sadece alev ile direkt temas eden kısımlar yanarken, alev yürütmeme özelliği sayesinde yangının diğer bölgelere yayılmasını engeller.

### APPLICATION

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


### ENVIRONMENT

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

### 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 from spreading around.

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	NOMİNAL KESİT CROSS SECTION (mm <sup>2</sup> )	KABLO DIŐ ÇAPI OVERALL DIAMETER (mm)	YAKLAŐIK KABLO AĐIRLIĐI APPX. WEIGHT (kg / km)	BAKIR AĐIRLIĐI COPPER WEIGHT (kg / km)
	1 x 1	5.9	55	30.6
	1 x 1.5	6.2	64	35.4
	1 x 2.5	6.6	77	45
	1 x 4	7.2	99	64.4
	1 x 6	7.7	123	83.6
	1 x 10	8.8	174	127
	1 x 16	9.8	237	189.6
	1 x 25	11.7	350	286
	1 x 35	12.8	448	390
	1 x 50	15	628	566
	1 x 70	17.2	859	776
	1 x 95	19	1116	1033
	1 x 120	20.9	1384	1290
	1 x 150	23	1686	1578
	1 x 185	25.3	2068	1931
	1 x 240	28.2	2667	2485
	1 x 300	31	3282	3087
	1 x 400	34.3	4118	4047
	1 x 1000	53.5	10647	10150
	2 x 1	10.8	182	60.2
	2 x 1.5	11.6	213	72.8
	2 x 2.5	12.4	253	96
	2 x 4	13.6	317	134.8
	2 x 6	15.2	424	207.2
	2 x 10	17	562	303
	2 x 16	19.2	754	436.2
	2 x 25	22.8	1086	627
	2 x 50	29.8	1895	1158
	2 x 70	33.6	2500	1571
	3 x 1	11.3	201	74.8
	3 x 1.5	12.1	237	95.2
	3 x 2.5	13	287	132
	3 x 4	14.2	362	175.2
	3 x 6	15.9	490	287.8
	3 x 10	18.1	676	403
	3 x 16	20.2	907	595.8
	3 x 25	24.3	1337	893
	3 x 35	26.8	1700	1210
	3 x 50	30.5	2241	1670
	3 x 70	35.6	3113	2274
	3 x 95	40	4128	3155
	3 x 120	44.1	5100	3916
	3 x 150	48.8	6241	4832
	3 x 185	54.1	7692	5874
	3 x 240	60.7	9915	7529
	3 x 300	67.9	12473	9350
	3 x 400	76.3	16208	12330
	4 x 1	12.2	234	88.4
	4 x 1.5	12.9	272	116.6
	4 x 2.5	13.9	334	155
	4 x 4	15.9	472	266.6
	4 x 6	17.1	583	343.4
	4 x 10	19.5	813	515
	4 x 16	22.1	1114	764.4
	4 x 25	26.7	1655	1157
	4 x 35	29.5	2118	1541
	4 x 50	33.6	2800	2173
	4 x 70	39.6	3989	3087
	4 x 95	44.4	5214	4097
	4 x 120	48.9	6445	5106
	4 x 150	54.1	7889	6258
	4 x 185	60.3	9780	7702
	4 x 240	67.4	12584	9881
	5 x 1	13	260	103
	5 x 1.5	13.8	305	127
	5 x 2.5	15.5	418	207
	5 x 4	17.1	537	297
	5 x 6	18.7	680	410
	5 x 10	21.3	951	619
	5 x 16	24.3	1321	925
	5 x 25	29.3	1960	1383

Halojensiz  
Halogen FreeAlev Yürütme  
Flame RetardationDüşük Duman  
Yoğunluğu  
Low Smoke  
DensityYağa Dayanıklı  
Oil Resistant0,6/1  
kV  
Anma Gerilimi  
Rated Voltage3.5 kV  
Test Gerilimi  
Test Voltage+90 0C  
-40  
İşletme Sıcaklığı  
Working Temperature8x  
Büküm Yarıçapı  
Bending Radius

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6 x 1	13.7	290	115.6
6 x 1.5	15.2	384	179.4
6 x 2.5	16.4	471	256
7 x 1	13.7	297	125.2
7 x 1.5	15.2	395	193.8
7 x 2.5	16.4	490	280
8 x 1	13.9	286	169.8
8 x 1.5	15	349	208.2
8 x 2.5	16.6	456	304
9 x 1	14.8	319	179.4
9 x 1.5	15.9	388	222.6
9 x 2.5	17.7	510	328
10 x 0.75	13.3	211	128
10 x 1	15.1	287	185
10 x 1.5	16.3	353	251
10 x 2.5	18.1	471	347
12 x 1	15.6	312	204.2
12 x 1.5	17	397	279.8
12 x 2.5	18.9	535	412
14 x 1	16.3	341	241.4
14 x 1.5	17.8	437	308.6
14 x 2.5	19.7	606	460
16 x 1	17.2	395	260.6
16 x 1.5	18.6	679	354.4
16 x 2.5	20.9	679	508
18 x 1	18	427	279.8
18 x 1.5	19.7	547	383.2
18 x 2.5	21.9	743	573
19 x 1	18	437	289.4
19 x 1.5	19.7	562	397.6
19 x 2.5	21.9	766	598
20 x 1	18	448	299
20 x 1.5	19.7	578	412
20 x 2.5	21.9	791	622
21 x 1	18.9	473	325.6
21 x 1.5	20.7	610	426.4
21 x 2.5	23.1	835	646
24 x 1	20.9	542	354.4
24 x 1.5	22.9	699	487.6
24 x 2.5	25.5	955	736
25 x 1	20.9	552	364
25 x 1.5	22.9	713	502
25 x 2.5	25.5	978	760
27 x 1	21.4	580	401.2
27 x 1.5	23.4	752	548.8
27 x 2.5	26.1	1035	808
30 x 1	22.3	633	421
30 x 1.5	24.4	822	592
30 x 2.5	27.1	1132	906
32 x 1	23	665	467.2
32 x 1.5	25.2	865	620.8
32 x 2.5	28.1	1196	954
36 x 1	23.8	719	505.6
36 x 1.5	26.1	940	678.4
36 x 2.5	29.1	1307	1050
37 x 1	23.8	729	515.2
37 x 1.5	26.1	955	692.8
37 x 2.5	29.1	1330	1074
40 x 1	24.9	788	544
40 x 1.5	27.3	1033	762
40 x 2.5	30.5	1441	1173
42 x 1	25.9	829	563.2
42 x 1.5	28.4	1083	790.8
42 x 2.5	31.6	1508	1221
48 x 1	27.4	923	646.8
48 x 1.5	30	1212	904.2
48 x 2.5	33.5	1696	1365
60 x 1	29.8	1098	762
60 x 1.5	32.7	1453	1077

