

M2XCH

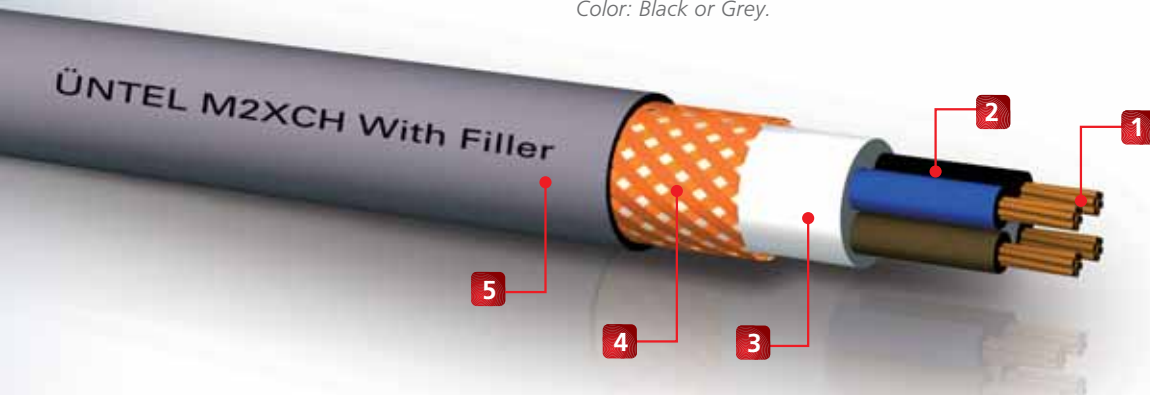
HALOJENSİZ, ALEV YÜRÜTMİYEN EKranLI GÜÇ KABLOSU HALOGEN-FREE, FLAME RETARDANT, SCREENED POWER CABLE

KABLO YAPISI

- 1- İLETKEN** : Elektrolitik, tavlı ve bükülü bakır tel. IEC 60228 Sınıf 2 (Sınıf 5 ve/veya kalaylı isteğe bağlı).
- 2- İZOLASYON** : Halojensiz, çapraz bağlı polietilen bileşik (XLPE).
- 3- DOLGU** : Halojensiz bileşikten dolgu.
- 4- EKran** : Elektrolitik bakır tellerden örülmüş ekran (kapatma oranı: %90).
M2XCH (EMC) tipinde ekrana ilave olarak %100 örten 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** : Halogen free, crosslinked polyethylene compound (XLPE).
- 3- BEDDING** : Halogen-free compound.
- 4- SCREEN** : Electrolytic copper braided screen (90% coverage). M2XCH (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

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

KULLANIM ALANI

Elektromekanik, elektronik cihazlarda ve panolarda sabit bağlantı kablosu olarak kullanılır. Ekranlı olması sayesinde elektromanyetik etkileşim minimuma indirilmiştir.

ORTAM

Kuru, ıslak, yağlı ve tüm deniz ortamlarında, elektromanyetik koruma gereken bölgelerde kullanılabilir.

GÜVENLİK

Halojensiz olması, düşük duman yoğunluğu ve alev iletmeme özellikleri sayesinde herhangi bir yangın durumunda korozif gazlar oluşturmaz, görüşü kapatmaz ve yangının yayılmasını önler. Böylece insan sağlığını ve değerli ekipmanı korur.

APPLICATION

Used as fixed installation cables in various electromechanical and electronic equipments. 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' halogen-free, low smoke density and flame retardant features, it won't create corrosive gases nor obstruct visibility and prevents the fire from spreading around. Thus it protects human life and equipment, during a fire.

NOMİNAL KESİT CROSS SECTION (mm ²)	KABLO DIŞ ÇAPI OVERALL DIAMETER		KABLO DIŞ ÇAPI OVERALL DIAMETER		YAKLAŞIK KABLO AĞIRLIĞI APPX. WEIGHT		YAKLAŞIK KABLO AĞIRLIĞI APPX. WEIGHT		BAKİR AĞIRLIĞI COPPER WEIGHT (kg / km)
	WITHOUT FILLER	WITH FILLER	WITHOUT FILLER	WITH FILLER	WITHOUT FILLER	WITH FILLER	WITHOUT FILLER	WITH FILLER	
1 x 1	5.9	5.9	55	55	30.6				
1 x 1.5	6.2	6.2	64	64	35.4				
1 x 2.5	6.6	6.6	77	77	45				
1 x 4	7.2	7.2	99	99	64.4				
1 x 6	7.7	7.7	123	123	83.6				
1 x 10	8.8	8.8	174	174	127				
1 x 16	9.8	9.8	237	237	189.6				
1 x 25	11.7	11.7	350	350	286				
1 x 35	12.8	12.8	448	448	390				
1 x 50	15	15	628	628	566				
1 x 70	17.2	17.2	859	859	776				
1 x 95	19	19	1116	1116	1033				
1 x 120	20.9	20.9	1384	1384	1274				
1 x 150	23	23	1686	1686	1578				
1 x 185	25.5	25.5	2081	2081	1931				
1 x 240	28.4	28.4	2681	2681	2476				
1 x 300	31.2	31.2	3298	3298	3087				
1 x 630	43	43	6658	6658	6048				
2 x 1	8.9	10.6	103	180	54.2				
2 x 1.5	9.5	11.4	120	220	69.8				
2 x 2.5	10.3	12.2	147	260	91				
2 x 4	11.7	13.4	197	320	128.8				
2 x 6	12.7	15	246	430	168.2				
2 x 10	15.1	17	382	580	289				
2 x 16	17.3	19	527	760	423.2				
2 x 25	22.6	22.8	1070	1100	635				
2 x 35	25	25.2	1355	1400	846				
2 x 50	28.4	28.4	1775	1820	1163				
2 x 70	33.2	33.4	2460	2510	1576				
2 x 95	37.4	37.4	3258	3258	2185				
2 x 120	41.2	41.2	4007	4007	2717				
2 x 150	45.6	45.6	4904	4904	3344				
2 x 185	50.6	50.6	6043	6043	4068				
2 x 240	56.8	56.8	7762	7762	5175				
3 x 1	9.4	11.1	122	200	66.8				
3 x 1.5	10	11.9	144	235	82.2				
3 x 2.5	10.9	12.8	182	295	115				
3 x 4	12.3	14.6	247	400	164.2				
3 x 6	14	15.7	352	500	263.8				
3 x 10	16	17.9	495	680	397				
3 x 16	18.3	20.2	695	920	587.8				
3 x 25	23.9	24.1	1308	1350	883				
3 x 35	26.4	26.6	1668	1700	1198				
3 x 50	30.3	30.5	2220	2250	1657				
3 x 70	35.2	35.4	3072	3130	2260				
3 x 95	39.8	40	4100	4150	3121				
3 x 120	44.3	44.5	5122	5200	3846				
3 x 150	48.6	48.8	6212	6300	4753				
3 x 185	53.9	65.3	7660	7800	5809				
3 x 240	60.7	61	9915	9915	7489				
3 x 400	76.3	76.3	16208	16208	12130				
4 x 1	10.1	12	143	240	78.4				
4 x 1.5	10.8	12.7	172	280	103.6				
4 x 2.5	12	14.3	226	380	147				
4 x 4	14	15.7	339	480	248.6				
4 x 6	15.2	17.1	432	600	326.4				
4 x 10	17.6	19.5	623	830	498				
4 x 16	20.2	22	889	1120	747.4				
4 x 25	26.3	26.5	1624	1660	1150				
4 x 35	29.1	30.1	2094	2130	1544				
4 x 50	33.8	34	2831	2860	2150				
4 x 70	39.4	39.6	3982	4035	3043				
4 x 95	44.6	44.6	5263	5300	4105				
4 x 120	49.1	49.3	6502	6550	5115				
4 x 150	53.9	54.1	7897	7980	6270				
4 x 185	60.5	60.7	9867	9930	7714				
4 x 240	68	68.5	12762	12850	9876				
4 x 300	75	75	15550	15550	12245				
5 x 1	10.9	12.8	168	270	92				
5 x 1.5	11.9	14.2	210	350	124				
5 x 2.5	13	15.3	270	420	181				
5 x 4	15.2	17.1	406	550	290				
5 x 6	16.8	18.5	531	680	405				
5 x 10	19.4	21.1	768	950	617				
5 x 16	22.4	24.1	1096	1230	924				
5 x 25	28.9	29.1	1926	1960	1405				



Halojensiz
Halogen Free



Alev Yürütme
Flame Retardation



Düşük Duman
Yoğunluğu
Low Smoke
Density



Yağa Dayanıklı
Oil Resistant



0,6/1
kV
Anma Gerilimi
Rated Voltage



3,5 kV
Test Gerilimi
Test Voltage



+90
-40 °C
İşletme Sıcaklığı
Working Temperature



8x
Büküm Yarıçapı
Bending Radius

NOMİNAL KESİT CROSS SECTION (mm ²)	KABLO DİŞ ÇAPı		KABLO DİŞ ÇAPı		YAKLAŞIK KABLO AĞIRLIĞI		YAKLAŞIK KABLO AĞIRLIĞI		BAKİR AĞIRLIĞI COPPER WEIGHT (kg / km)
	OVERALL DIAMETER (mm)	WITHOUT FILLER	OVERALL DIAMETER (mm)	WITH FILLER	APPX. WEIGHT (kg / km)	WITHOUT FILLER	APPX. WEIGHT (kg / km)	WITH FILLER	
5 x 35	37.6		32.5		2524		2524		1914
5 x 50	43.7		37.6		3444		3444		2764
5 x 70	49.4		43.7		4755		4755		3776
5 x 95	54.4		49.4		6285		6285		5028
5 x 120	60.4		54.4		7773		7773		6280
5 x 150	67.4		60.4		9550		9550		7824
5 x 185	75.4		67.4		11866		11866		9574
5 x 240	11.8		75.4		15276		15276		12283
6 x 1	12.7		13.5		197		295		105.6
6 x 1.5	14.5		15		241		390		134.4
6 x 2.5	11.8		16.2		350		480		233
7 x 1	12.7		13.5		205		300		115.2
7 x 1.5	14.5		15		253		400		148.8
7 x 2.5	13.3		16.2		369		495		257
8 x 1	15		15.6		249		400		132.8
8 x 1.5	16.6		17		349		500		204.2
8 x 2.5	14.8		18.3		456		600		299
9 x 1	15.9		16.5		319		450		175.4
9 x 1.5	17.7		17.8		388		550		236.6
9 x 2.5	15.1		19.6		510		690		323
10 x 1	16.3		17.1		297		380		190
10 x 1.5	18.1		18.3		363		450		257
10 x 2.5	15.6		20.1		481		580		353
12 x 1	17		17.6		324		415		209.2
12 x 1.5	18.7		18.8		409		650		285.8
12 x 2.5	16.3		20.7		537		650		419
14 x 1	17.8		18.3		355		450		247.4
14 x 1.5	19.7		20.7		451		590		314.6
14 x 2.5	17.2		21.5		606		650		467
16 x 1	18.6		20		395		450		266.6
16 x 1.5	20.7		20.6		494		550		361.4
16 x 2.5	18		22.7		669		730		515
18 x 1	19.7		20		427		480		285.8
18 x 1.5	21.7		21.5		547		600		390.2
18 x 2.5	18		23.7		732		800		582
19 x 1	19.7		20		437		490		295.4
19 x 1.5	21.7		21.5		562		620		404.6
19 x 2.5	18		23.7		780		810		606
20 x 1	19.7		20		448		500		305
20 x 1.5	21.7		21.5		578		620		419
20 x 2.5	18.9		23.7		780		850		630
21 x 1	20.7		21		473		530		332.6
21 x 1.5	23.1		22.7		610		670		433.4
21 x 2.5	20.9		25.1		835		900		654
24 x 1	22.9		23		542		600		380.4
24 x 1.5	25.5		25		699		750		495.6
24 x 2.5	20.9		27.3		955		1010		745
25 x 1	22.9		23		552		600		390
25 x 1.5	25.5		25		713		780		510
25 x 2.5	21.4		27.3		978		1030		769
27 x 1	23.4		23.5		580		650		409.2
27 x 1.5	26.1		25.4		752		820		538.8
27 x 2.5	22.3		28.1		1035		1100		817
30 x 1	24.2		24.1		633		680		438
30 x 1.5	26.9		26.2		810		870		601
30 x 2.5	23		29		1118		1190		917
32 x 1	25.2		25		665		730		457.2
32 x 1.5	28.1		27		865		920		629.8
32 x 2.5	23.8		30		1196		1250		965
36 x 1	26.1		25.8		719		790		514.6
36 x 1.5	29.1		28.1		940		1000		687.4
36 x 2.5	23.8		31.1		1307		1380		1033
37 x 1	26.1		25.8		729		790		552.2
37 x 1.5	29.1		28.1		955		1020		701.8
37 x 2.5	24.9		31.1		1330		1400		1057
40 x 1	27.1		26.7		788		840		581
40 x 1.5	30.5		29.1		1020		1080		773
40 x 2.5	25.9		32.7		1441		1500		1185
42 x 1	28.4		28		826		890		572.2
42 x 1.5	31.6		30.4		1083		1150		801.8
42 x 2.5	27.4		34		1508		1590		1233
48 x 1	29.8		29.2		923		980		657.8
48 x 1.5	33.5		31.8		1197		1260		888.2
48 x 2.5	29.6		36.3		1696		1860		1405
60 x 1	32.5		31.6		1083		1150		773
60 x 1.5			35		1437		1510		1089