M2XCH - FFR (FI)

CABLE STRUCTURE

Conductor	Electrolytic, stranded, annealed copper wire IEC 60228 Class 5 (Class 2 and / or tinned on request)
Fire Barrier	Mica tape.
Insulation	Cross linked polyethylene compound (XLPE).
Inner Covering	Halogen - free bedding coupound
Screen	Electrolytic copper braided screen (min 90 % coverage) (Tinned copper wire braid on reguest)
Outer Sheath	Halogen-free, flame retardant and fire resistant, thermoplastic polyolefin based compound (SHF 1).
Color	Orange or Green.
FI	With extruded bedding compound.

STANDARDS & MAIN CHARACTERISTICS

Construction	IEC 60092 / 353
Tests And Material	IEC 60092 / 350-360
Flame Retardant	IEC 60332 / 1-2, IEC 60332 / 3-22 Cat A
Fire Resistance	IEC 60331 / 21, IEC 60331 / 1-2
Halogen Content	IEC 60754 / 1-2
Smoke Emission	IEC 61034 / 1-2 (DIN EN 50268 / 1-2)
Ozon Resistance	IEC 60811 / 403
Working Temperature	-40˚C / + 90˚C
Min. Bending Radius (fixed)	6xD
Rated Voltage	0,6 / 1 kV
Test Voltage	3,5 kV

Minimum recommended installation temperature -15˚C
For core identification, diameter tolerances and current ratings etc. see technical information section

Application
Used on marine vehicles as fixed installation cables of various electromechanical and electronic equipments, where sustainable connection during fire is required.

Halogen Free | Low Smoke Density | Flame Retardant | Rated Voltage | Test Voltage | Working Tempature | Bending Radius | No Corrosivity

Cross Section (mm^2)	Overall Diameter (mm)	Approximate Weight (kg / km)	Min. Bending Radius Fixed Installed (mm)	Max Resistance of Conductors at 20°C (ohm / km)	Current Carrying Capacity at 45°C (A)
2x1	10,9	180	66	19,5	14
2x1,5	11,5	200	69	13,3	18
2x2,5	12,4	240	75	7,98	25
2x4	14,1	335	85	4,95	33
2x6	15,1	400	91	3,30	43
2x10	17,5	555	105	1,91	60
2x16	19,7	735	119	1,21	79
2x25	24,1	1080	145	0,78	104
2x35	26,1	1350	157	0,554	129
2x50	29,7	1780	178	0,386	166
2x70	34,7	2470	209	0,272	204
2x95	38,7	3165	233	0,206	243
2x120	42,7	3900	257	0,161	282
2x150	47,1	4795	283	0,129	324
2x185	52,1	5790	313	0,106	367
2x240	59,1	7585	375	0,0801	432
3x1	11,6	200	70	19,5	12
3x1,5	12,0	225	72	13,3	15
3x2,5	12,9	270	78	7,98	21
3x4	14,8	380	89	4,95	28
3x6	15,9	460	96	3,30	35
3x10	18,4	652	111	1,91	50
3x16	20,8	885	125	1,21	66
3x25	25,8	1330	155	0,78	86
3x35	27,8	1660	167	0,554	107
3x50	31,7	2210	191	0,386	137
3x70	37,3	3175	224	0,272	168
3x95	41,2	3970	248	0,206	201
3x120	45,9	4984	276	0,161	233
3x150	50,2	6058	301	0,129	268
3x185	55,9	7380	335	0,106	303
3x240	63,2	9670	380	0,0801	356

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Cross Section (mm^2)	Overall Diameter (mm)	Approximate Weight (kg / km)	Min. Bending Radius Fixed Installed (mm)	Max Resistance of Conductors at 20°C (ohm / km)	Current Carrying Capacity at 45°C (A)
4x1	12,5	230	75	19,5	12
4x1,5	12,9	255	78	13,1	15
4x2,5	14,6	350	88	7,98	21
4x4	16,0	445	96	4,95	28
4x6	17,4	550	105	3,30	35
4x10	20,2	790	122	1,91	50
4x16	22,9	1086	138	1,21	66
4x25	28,3	1615	170	0,78	86
4x35	30,7	2060	184	0,554	107
4x50	36,0	2890	216	0,386	137
4x70	41,5	3980	249	0,272	168
4x95	46,0	5015	276	0,206	201
4x120	51,0	6265	306	0,161	233
4x150	56,1	7685	337	0,129	268
4x185	62,1	9280	373	0,106	303
4x240	70,8	12296	425	0,0801	356
5x1	14,0	300	84	19,5	10
5x1,5	14,5	330	87	13,3	13
5x2,5	15,7	405	95	7,98	17
5x4	17,4	530	105	4,95	23
5x6	18,8	650	113	3,30	29
5x10	22,2	950	134	1,91	42
5x16	25,1	1300	151	1,21	54
5x25	31,2	1950	188	0,78	71
5x35	34,3	2525	206	0,554	89
5x50	39,7	3490	238	0,386	114
5x70	46,4	4895	278	0,272	140
7x1,5	15,4	380	93	13,3	11
7x2,5	17,0	482	102	7,98	16
10x1,5	18,9	525	114	13,3	10
12x1,5	19,6	580	118	13,3	10
14x1,5	20,6	640	124	13,3	9
19x1,5	22,6	760	136	13,3	8
24x1,5	26,1	946	157	13,3	8