ADMIRAL
MARINE CABLE SOLUTIONS

CABLE SOLUTIONS
WORLDWIDE LTD

M2XH-FFR (FI)

HFFR Fire Resistant Flex Power Cable

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 compound
Outer Sheath	Halogen-free, flame retardant, thermoplastic polyolefin based compound (SHF 1).
Colour	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 Resistant	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)	For cables D ≤ 25 mm 4xD For cables D > 25 mm 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 (0,6/1 kV) | Test Voltage (3,5 kV) | Working Tempature (-40 °C +90) | Bending Radius (6x) | No Corrosivity

Cable Solutions Worldwide Ltd.
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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)
2x1	10,0	130	40	19,5	14
2x1,5	10,4	145	42	13,3	18
2x2,5	11,5	184	46	7,98	25
2x4	12,6	236	51	4,95	33
2x6	13,6	291	55	3,30	43
2x10	16,0	428	64	1,91	60
2x16	18,2	593	73	1,21	79
2x25	22,8	912	94	0,78	104
2x35	24,8	1162	148	0,554	129
2x50	28,4	1564	171	0,386	166
2x70	33,4	2223	200	0,272	204
2x95	36,8	2785	221	0,206	243
2x120	41,0	3510	246	0,161	282
2x150	45,2	4324	272	0,129	324
2x185	50,2	5268	301	0,106	367
2x240	57,4	7015	345	0,0801	432
3x1	10,5	144	42	19,5	12
3x1,5	11,2	170	45	13,3	15
3x2,5	12,1	212	49	7,98	21
3x4	13,3	276	54	4,95	28
3x6	14,6	354	59	3,30	35
3x10	17,1	527	69	1,91	50
3x1	19,5	742	78	1,21	66
3x25	24,3	1130	144	0,78	86
3x35	26,3	1452	158	0,554	107
3x50	30,4	1985	183	0,386	137
3x70	35,7	2827	215	0,272	168
3x95	39,3	3565	236	0,206	201
3x120	44,3	4552	266	0,161	233
3x150	48,8	5560	290	0,129	268
3x185	54,1	6817	325	0,106	303
3x240	61,3	9030	368	0,0801	356
4x1	11,6	153	46	19,5	12

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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)
4x1,5	12,0	174	48	13,3	15
4x2,5	13,1	223	53	7,98	21
4x4	14,7	306	59	4,95	28
4x6	15,9	390	64	3,30	35
4x10	18,7	594	75	1,91	50
4x16	21,4	855	86	1,21	66
4x25	26,8	1310	161	0,78	86
4x35	29,2	1720	176	0,554	107
4x50	34,1	2380	205	0,386	137
4x70	39,6	3370	238	0,272	168
4x95	44,3	4320	266	0,206	201
4x120	49,3	5463	296	0,161	233
4x150	54,4	6762	327	0,129	268
4x185	60,4	8210	363	0,106	303
4x240	68,9	10960	414	0,0801	356
5x1	12,5	200	50	19,5	10
5x1,5	13,0	230	52	13,3	13
5x2,5	14,4	300	58	7,98	17
5x4	15,9	400	64	4,95	23
5x6	17,5	518	70	3,30	29
5x10	20,7	785	83	1,91	42
5x16	23,6	1113	100	1,21	54
5x25	29,7	1708	178	0,78	71
5x35	33,0	2280	16,8	0,554	89
5x50	37,8	3100	227	0,386	114
5x70	44,5	4430	267	0,272	140
7x1,5	14,1	278	57	13,3	11
7x2,5	15,5	362	62	7,98	16
10x1,5	17,6	395	71	13,3	10
12x1,5	18,1	434	73	13,3	10
14x1,5	19,3	410	78	13,3	9
19x1,5	21,1	595	85	13,3	8
24x1,5	24,8	760	146	13,3	8