ADMIRAL
MARINE CABLE SOLUTIONS

CABLE SOLUTIONS
WORLDWIDE LTD

FM2XAH -FFR

Fire Resistant HFFR Screened Communication Cable

CABLE STRUCTURE

Conductor	Electrolytic, stranded, annealed copper wire IEC 60228 Class 2 (Class 5 and / or tinned on request)
Fire Barrier	Mica tape
Insulation	Cross linked polyethylene compound (XLPE). Each pair fomed by white cores with black numbers.
Inner Covering	Separating foil.
Screen	Electrolytic, tinned, stranded, copper drain wire and aluminum tape overal screen.
Separator (Optional)	Separating foil above screen.
Outer sheath	Halogen-free, flame retardant, polyolefin based compound (SHF 1).
Color	Orange or Green.

STANDARDS & MAIN CHARACTERISTICS

Construction	IEC 60092 / 376
Tests And Material	IEC 60092 / 350-360
Flame Retardant	IEC 60332 / 1, 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	150 / 250 V
Test Voltage	1,5 kV

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

Application

Used as signal and communication cables in radio, radar and information systems of marine vehicles. It's twisted pairs enables proper transmission of high frequency signals, while it's overall screen minimizes environmental electromagnetic interference.

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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)
1x2x0,5	6,6	50	40	40,4	11
2x2x0,5	9,6	85	58	40,4	9
4x2x0,5	11,3	130	68	40,4	6
7x2x0,5	13,3	190	80	40,4	5
10x2x0,5	17,3	276	104	40,4	5
12x2x0,5	17,8	310	107	40,4	5
14x2x0,5	18,7	350	113	40,4	4
16x2x0,5	20,0	400	120	40,4	4
18x2x0,5	21,0	440	126	40,4	4
24x2x0,5	22,6	555	136	40,4	4
37x2x0,5	28,6	832	172	40,4	3
1x2x0,75	7,5	60	45	26,0	13
2x2x0,75	11,3	115	68	26,0	11
4x2x0,75	13,1	170	79	26,0	8
7x2x0,75	15,7	260	95	26,0	7
10x2x0,75	20,4	380	123	26,0	6
12x2x0,75	21,1	430	127	26,0	6
14x2x0,75	22,4	494	135	26,0	5
16x2x0,75	23,6	550	142	26,0	5
18x2x0,75	25,1	620	151	26,0	5
24x2x0,75	29,5	810	178	26,0	5
37x2x0,75	34,2	1175	206	26,0	4
1x2x1	7,7	68	47	19,2	16
2x2x1	11,6	125	70	19,2	13
4x2x1	13,5	190	81	19,2	9
7x2x1	16,2	292	98	19,2	8
10x2x1	21,1	424	127	19,2	7
12x2x1	22,0	494	132	19,2	7
14x2x1	23,1	560	139	19,2	6
16x2x1	24,4	625	147	19,2	6
18x2x1	25,9	700	156	19,2	6
24x2x1	30,7	930	185	19,2	6
37x2x1	35,5	1355	213	19,2	5

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1x2x1,5	8,9	90	54	12,8	20
2x2x1,5	13,2	160	80	12,8	17
4x2x1,5	15,7	260	95	12,8	12
7x2x1,5	18,9	405	114	12,8	10
10x2x1,5	24,7	596	149	12,8	9
12x2x1,5	25,6	682	154	12,8	9
14x2x1,5	26,9	775	162	12,8	8
16x2x1,5	28,7	880	173	12,8	8
18x2x1,5	30,4	985	183	12,8	7
24x2x1,5	36,0	1310	216	12,8	7
37x2x1,5	41,7	1910	251	12,8	6