

## FMGACH



### Areas of Use

These halogen-free screened control and communication cables are used in radio, radar and information systems for marine applications in all conditions in the marine environment such as dry, wet or oily locations, and inside engine rooms. Enables proper transmission of high-frequency signals while minimizing environmental electromagnetic interference.

### Cable Construction

<b>Insulation</b>	HEPR (IEC 60092-360)
<b>Core Colors</b>	Pair: Black / White, Numbered Quad: Black / White / Red / Blue, Numbered
<b>1. Separator</b>	PET Foil
<b>Individual Screen</b>	Al-PET Foil (with Tinned Copper Drain Wire)
<b>2. Separator</b>	PET Foil
<b>Lay-up</b>	Cores are twisted as pairs and pairs are stranded in layers
<b>Separator</b>	PET Foil (HFFR filler upon request)
<b>Overall Screen</b>	Annealed Copper Wire Braiding (90% Coverage)
<b>Outer Sheath</b>	HFFR (IEC 60092-360 SHF1), RAL 9005 - Black or RAL 7001 - Grey
<b>Reference Standards</b>	IEC 60092-376
<b>Conductor</b>	Stranded Annealed Tinned Copper (IEC 60228, Class 2)

### Technical Properties

<b>Operating Voltage</b>	150/250 (300) V
<b>Test Voltage</b>	1.5 kV (a.c) 3.6 kV (d.c)
<b>Conductor Resistance</b>	IEC/EN 60228
<b>Insulation Resistance</b>	>5000 M.Ωxkm
<b>Temperature Range</b>	-40 °C.....+90 °C
<b>Flame Retardancy</b>	IEC/EN 60332-1-2, IEC/EN 60332-3-22 (CAT A)
<b>Smoke Density</b>	IEC/EN 61034-1+2
<b>Amount of Halogen Acid Gas</b>	IEC/EN 60754-1
<b>Corrosive Gases Measurement</b>	IEC/EN 60754-2
<b>Min. Bending Radius (Fixed)</b>	12 x Cable Diameter

### Cross Section

Configuration / Cross-Section (mm/mm <sup>2</sup> )	Cable Diameter (mm) (± 5%)	Copper Weight (kg / km)	~ Cable Weight (kg / km)
2x2x0.5	10.1	28	133
2x2x0.5	10,1	28	133

4x2x0.5	12.9	56	206
4x2x0.5	12,9	56	206
2x2x0.75	11.3	37	177
2x2x0.75	11,3	37	177
4x2x0.75	14.2	75	236
4x2x0.75	14,2	75	236
7x2x0.75	17.6	130	378
7x2x0.75	17,6	130	378
10x2x0.75	21.8	186	525
10x2x0.75	21,8	186	525
14x2x0.75	25.0	260	618
14x2x0.75	25,0	260	618
19x2x0.75	26.5	352	882
19x2x0.75	26,5	352	882
24x2x0.75	29.9	445	990
24x2x0.75	29,9	445	990

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