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

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

Technical Properties

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

Cross Section

Configuration / Cross-Section (mm/mm²)	Cable Diameter (mm) (± 5%)	Copper Weight (kg / km)	~ Cable Weight (kg / km)
2x2x0.5	10.1	28	133
4x2x0.5	12.9	56	206

2x2x0.75	11.3	37	177
4x2x0.75	14.2	75	236
7x2x0.75	17.6	130	378
10x2x0.75	21.8	186	525
14x2x0.75	25.0	260	618
19x2x0.75	26.5	352	882
24x2x0.75	29.9	445	990

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