



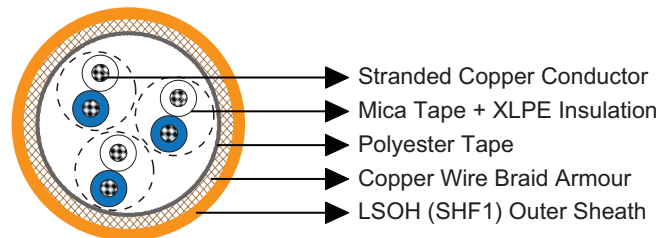
FMGCH-FFR 150/250V Mica Tape + XLPE Insulated, LSOH (SHF1) Sheathed, Armoured Fire Resistant Instrumentation & Control Cables (Multipair/Multitriple)

Application

These cables are used on board of ships in all locations for fixed installations complying with IEC standards 60092-352 in safety circuit, where fire resistance is required. These cables are fire resistant, flame retardant, low smoke & halogen free, suitable for installations on passenger ships, as on other commercial vessels.

Standards

- IEC 60092-350/351/376/359
- IEC 60331-21
- IEC 60332-1
- IEC 60332-3-22
- IEC 60754-1/2
- IEC 61034



Construction

- Conductors: Class 2 stranded copper conductor.
- Insulation: Mica tape + XLPE.
- Cabling Element: Pair/Triple.
- Inner Covering: Lapped polyester tape.
- Armour: Copper wire braid.
- Outer Sheath: LSOH (SHF1).

Core Identification

Pair: White/blue with printed pair number and core number.

Triple: White/blue/red with printed triple number.



Mechanical and Thermal Properties

Bending Radius for Fixed Installations: $6 \times OD$

Temperature Range: $-30^{\circ}\text{C} \sim +80^{\circ}\text{C}$

Dimensions and Weight

Part No.	Construction No. of elements×No. of cores in element×Cross section(mm ²)	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
FMGCH-FFR-1P0.75	1×2×0.75	0.5	1.3	9.1	120
FMGCH-FFR-2P0.75	2×2×0.75	0.5	1.3	10.2	150
FMGCH-FFR-3P0.75	3×2×0.75	0.5	1.8	14.6	280
FMGCH-FFR-4P0.75	4×2×0.75	0.5	1.8	15.4	320
FMGCH-FFR-5P0.75	5×2×0.75	0.5	1.9	17.2	390
FMGCH-FFR-6P0.75	6×2×0.75	0.5	1.9	18.3	440
FMGCH-FFR-7P0.75	7×2×0.75	0.5	1.9	18.3	460
FMGCH-FFR-8P0.75	8×2×0.75	0.5	2.0	19.6	520
FMGCH-FFR-10P0.75	10×2×0.75	0.5	2.0	21.7	620
FMGCH-FFR-12P0.75	12×2×0.75	0.5	2.1	22.8	700
FMGCH-FFR-14P0.75	14×2×0.75	0.5	2.1	23.6	770
FMGCH-FFR-16P0.75	16×2×0.75	0.5	2.2	25.4	870
FMGCH-FFR-19P0.75	19×2×0.75	0.5	2.2	27.0	990
FMGCH-FFR-20P0.75	20×2×0.75	0.5	2.2	27.0	1010
FMGCH-FFR-24P0.75	24×2×0.75	0.5	2.4	30.9	1240
FMGCH-FFR-30P0.75	30×2×0.75	0.5	2.5	33.5	1480
FMGCH-FFR-37P0.75	37×2×0.75	0.5	2.6	35.9	1730
FMGCH-FFR-1P1.0	1×2×1.0	0.5	1.3	9.5	130
FMGCH-FFR-2P1.0	2×2×1.0	0.5	1.3	10.7	170
FMGCH-FFR-3P1.0	3×2×1.0	0.5	1.8	15.3	320
FMGCH-FFR-4P1.0	4×2×1.0	0.5	1.8	16.2	360
FMGCH-FFR-5P1.0	5×2×1.0	0.5	1.9	18.1	440
FMGCH-FFR-6P1.0	6×2×1.0	0.5	2.0	19.5	510
FMGCH-FFR-7P1.0	7×2×1.0	0.5	2.0	19.5	530
FMGCH-FFR-8P1.0	8×2×1.0	0.5	2.0	20.7	590
FMGCH-FFR-10P1.0	10×2×1.0	0.5	2.1	23.2	730
FMGCH-FFR-12P1.0	12×2×1.0	0.5	2.1	24.1	810
FMGCH-FFR-14P1.0	14×2×1.0	0.5	2.2	25.1	900
FMGCH-FFR-16P1.0	16×2×1.0	0.5	2.2	26.9	1010
FMGCH-FFR-19P1.0	19×2×1.0	0.5	2.3	28.8	1160





IEC Standard Caledonian Offshore & Marine Cables

MariSig Fire Resistant Instrumentation & Control Cables

www.caledonian-cables.co.uk

Part No.	Construction No. of elements×No. of cores in element×Cross section(mm ²)	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
FMGCH-FFR -20P1.0	20×2×1.0	0.5	2.3	28.8	1190
FMGCH-FFR -24P1.0	24×2×1.0	0.5	2.5	33.0	1460
FMGCH-FFR -30P1.0	30×2×1.0	0.5	2.6	35.8	1740
FMGCH-FFR -37P1.0	37×2×1.0	0.5	2.9	38.8	2140
FMGCH-FFR -1P1.5	1×2×1.5	0.6	1.3	10.5	160
FMGCH-FFR -2P1.5	2×2×1.5	0.6	1.4	12.1	220
FMGCH-FFR -3P1.5	3×2×1.5	0.6	1.9	17.4	400
FMGCH-FFR -4P1.5	4×2×1.5	0.6	1.9	18.4	470
FMGCH-FFR -5P1.5	5×2×1.5	0.6	2.0	20.6	570
FMGCH-FFR -6P1.5	6×2×1.5	0.6	2.1	22.2	660
FMGCH-FFR -7P1.5	7×2×1.5	0.6	2.1	22.2	700
FMGCH-FFR -8P1.5	8×2×1.5	0.6	2.1	23.6	780
FMGCH-FFR -10P1.5	10×2×1.5	0.6	2.2	26.5	950
FMGCH-FFR -12P1.5	12×2×1.5	0.6	2.3	27.7	1070
FMGCH-FFR -14P1.5	14×2×1.5	0.6	2.3	28.7	1180
FMGCH-FFR -16P1.5	16×2×1.5	0.6	2.4	31.0	1350
FMGCH-FFR -19P1.5	19×2×1.5	0.6	2.5	33.2	1560
FMGCH-FFR -20P1.5	20×2×1.5	0.6	2.5	33.2	1590
FMGCH-FFR -24P1.5	24×2×1.5	0.6	2.9	38.5	2060
FMGCH-FFR -30P1.5	30×2×1.5	0.6	3.0	41.8	2450
FMGCH-FFR -37P1.5	37×2×1.5	0.6	3.1	44.7	2880
FMGCH-FFR -1T0.75	1×3×0.75	0.5	1.3	9.5	130
FMGCH-FFR -2T0.75	2×3×0.75	0.5	1.8	14.9	290
FMGCH-FFR -3T0.75	3×3×0.75	0.5	1.8	15.7	340
FMGCH-FFR -4T0.75	4×3×0.75	0.5	1.9	17.2	410
FMGCH-FFR -5T0.75	5×3×0.75	0.5	1.9	18.8	480
FMGCH-FFR -6T0.75	6×3×0.75	0.5	2.0	21.2	590
FMGCH-FFR -7T0.75	7×3×0.75	0.5	2.0	21.2	620
FMGCH-FFR -8T0.75	8×3×0.75	0.5	2.1	22.8	700
FMGCH-FFR -10T0.75	10×3×0.75	0.5	2.2	25.7	860
FMGCH-FFR -12T0.75	12×3×0.75	0.5	2.2	27.0	970
FMGCH-FFR -14T0.75	14×3×0.75	0.5	2.3	28.3	1080
FMGCH-FFR -16T0.75	16×3×0.75	0.5	2.3	29.9	1200
FMGCH-FFR -19T0.75	19×3×0.75	0.5	2.4	32.3	1390
FMGCH-FFR -20T0.75	20×3×0.75	0.5	2.5	33.0	1460
FMGCH-FFR -24T0.75	24×3×0.75	0.5	2.6	35.9	1710
FMGCH-FFR -30T0.75	30×3×0.75	0.5	2.9	40.1	2170
FMGCH-FFR -32T0.75	32×3×0.75	0.5	3.0	41.7	2320
FMGCH-FFR -1T1.0	1×3×1.0	0.5	1.3	9.9	150
FMGCH-FFR -2T1.0	2×3×1.0	0.5	1.8	15.6	320



Part No.	Construction No. of elements×No. of cores in element×Cross section(mm ²)	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
FMGCH-FFR-3T1.0	3×3×1.0	0.5	1.8	16.5	380
FMGCH-FFR-4T1.0	4×3×1.0	0.5	1.9	18.1	470
FMGCH-FFR-5T1.0	5×3×1.0	0.5	2.0	20.1	560
FMGCH-FFR-6T1.0	6×3×1.0	0.5	2.1	22.6	680
FMGCH-FFR-7T1.0	7×3×1.0	0.5	2.1	22.6	720
FMGCH-FFR-8T1.0	8×3×1.0	0.5	2.1	24.1	810
FMGCH-FFR-10T1.0	10×3×1.0	0.5	2.2	27.2	990
FMGCH-FFR-12T1.0	12×3×1.0	0.5	2.3	28.8	1130
FMGCH-FFR-14T1.0	14×3×1.0	0.5	2.3	30.0	1260
FMGCH-FFR-16T1.0	16×3×1.0	0.5	2.4	31.9	1410
FMGCH-FFR-19T1.0	19×3×1.0	0.5	2.5	34.4	1640
FMGCH-FFR-20T1.0	20×3×1.0	0.5	2.5	35.0	1700
FMGCH-FFR-24T1.0	24×3×1.0	0.5	2.9	38.8	2110
FMGCH-FFR-30T1.0	30×3×1.0	0.5	3.0	42.8	2560
FMGCH-FFR-32T1.0	32×3×1.0	0.5	3.1	44.4	2730
FMGCH-FFR-1T1.5	1×3×1.5	0.6	1.3	11.0	180
FMGCH-FFR-2T1.5	2×3×1.5	0.6	1.9	17.7	410
FMGCH-FFR-3T1.5	3×3×1.5	0.6	1.9	18.7	490
FMGCH-FFR-4T1.5	4×3×1.5	0.6	2.0	20.6	610
FMGCH-FFR-5T1.5	5×3×1.5	0.6	2.1	22.9	740
FMGCH-FFR-6T1.5	6×3×1.5	0.6	2.2	25.8	890
FMGCH-FFR-7T1.5	7×3×1.5	0.6	2.2	25.8	950
FMGCH-FFR-8T1.5	8×3×1.5	0.6	2.3	27.7	1070
FMGCH-FFR-10T1.5	10×3×1.5	0.6	2.4	31.3	1320
FMGCH-FFR-12T1.5	12×3×1.5	0.6	2.5	33.2	1520
FMGCH-FFR-14T1.5	14×3×1.5	0.6	2.5	34.6	1690
FMGCH-FFR-16T1.5	16×3×1.5	0.6	2.8	37.3	1990
FMGCH-FFR-19T1.5	19×3×1.5	0.6	2.9	40.3	2310
FMGCH-FFR-20T1.5	20×3×1.5	0.6	3.0	41.1	2420
FMGCH-FFR-24T1.5	24×3×1.5	0.6	3.1	44.7	2840
FMGCH-FFR-30T1.5	30×3×1.5	0.6	3.3	49.5	3460
FMGCH-FFR-32T1.5	32×3×1.5	0.6	3.3	51.2	3670

*: 2 pairs are assembled as a quad.

