



IEC Standard Caledonian Offshore & Marine Cables

MariSig Fire Resistant Instrumentation & Control Cables

www.caledonian-cables.co.uk

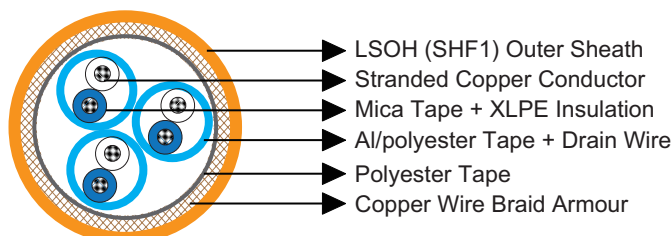
MRE-M2XCH PiMF/TiMF 150/250V Mica Tape + XLPE Insulated, LSOH (SHF1) Sheathed, Individual Screened & Armoured Fire Resistant Instrumentation & Control Cables (Multipair/Multitriples)

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.
- Individual Screen: Al/polyester tape.
- Drain Wire: Tinned copper wire.
- Inner Covering: Lapped polyester tape.
- Armour: Copper wire braid.
- Outer Sheath: LSOH (SHF1). SHF2 can be offered upon request.

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
MRE-M2XCH PiMF-1P0.75	1×2×0.75	0.5	1.3	9.3	130
MRE-M2XCH PiMF-2P0.75	2×2×0.75	0.5	1.4	13.6	230
MRE-M2XCH PiMF-3P0.75	3×2×0.75	0.5	1.8	15.1	320
MRE-M2XCH PiMF-4P0.75	4×2×0.75	0.5	1.8	16.0	370
MRE-M2XCH PiMF-5P0.75	5×2×0.75	0.5	1.9	17.9	450
MRE-M2XCH PiMF-6P0.75	6×2×0.75	0.5	1.9	19.1	510
MRE-M2XCH PiMF-7P0.75	7×2×0.75	0.5	1.9	19.1	540
MRE-M2XCH PiMF-8P0.75	8×2×0.75	0.5	2.0	20.4	610
MRE-M2XCH PiMF-10P0.75	10×2×0.75	0.5	2.1	22.9	740
MRE-M2XCH PiMF-12P0.75	12×2×0.75	0.5	2.1	23.7	830
MRE-M2XCH PiMF-14P0.75	14×2×0.75	0.5	2.1	24.6	910
MRE-M2XCH PiMF-16P0.75	16×2×0.75	0.5	2.2	26.5	1040
MRE-M2XCH PiMF-19P0.75	19×2×0.75	0.5	2.3	28.4	1200
MRE-M2XCH PiMF-20P0.75	20×2×0.75	0.5	2.3	28.4	1230
MRE-M2XCH PiMF-24P0.75	24×2×0.75	0.5	2.4	32.3	1490
MRE-M2XCH PiMF-30P0.75	30×2×0.75	0.5	2.5	35.1	1790
MRE-M2XCH PiMF-37P0.75	37×2×0.75	0.5	2.8	38.1	2200
MRE-M2XCH PiMF-1P1.0	1×2×1.0	0.5	1.3	9.7	140
MRE-M2XCH PiMF-2P1.0	2×2×1.0	0.5	1.8	15.0	300
MRE-M2XCH PiMF-3P1.0	3×2×1.0	0.5	1.8	15.9	360
MRE-M2XCH PiMF-4P1.0	4×2×1.0	0.5	1.9	17.0	430
MRE-M2XCH PiMF-5P1.0	5×2×1.0	0.5	1.9	18.8	510
MRE-M2XCH PiMF-6P1.0	6×2×1.0	0.5	2.0	20.3	600
MRE-M2XCH PiMF-7P1.0	7×2×1.0	0.5	2.0	20.3	630
MRE-M2XCH PiMF-8P1.0	8×2×1.0	0.5	2.0	21.5	700
MRE-M2XCH PiMF-10P1.0	10×2×1.0	0.5	2.1	24.1	860
MRE-M2XCH PiMF-12P1.0	12×2×1.0	0.5	2.2	25.2	980
MRE-M2XCH PiMF-14P1.0	14×2×1.0	0.5	2.2	26.1	1080
MRE-M2XCH PiMF-16P1.0	16×2×1.0	0.5	2.3	28.2	1230
MRE-M2XCH PiMF-19P1.0	19×2×1.0	0.5	2.3	30.0	1410





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
MRE-M2XCH PiMF-20P1.0	20×2×1.0	0.5	2.3	30.0	1450
MRE-M2XCH PiMF-24P1.0	24×2×1.0	0.5	2.5	34.4	1780
MRE-M2XCH PiMF-30P1.0	30×2×1.0	0.5	2.8	37.8	2220
MRE-M2XCH PiMF-37P1.0	37×2×1.0	0.5	2.9	40.5	2620
MRE-M2XCH PiMF-1P1.5	1×2×1.5	0.6	1.3	10.7	170
MRE-M2XCH PiMF-2P1.5	2×2×1.5	0.6	1.9	16.9	380
MRE-M2XCH PiMF-3P1.5	3×2×1.5	0.6	1.9	17.9	450
MRE-M2XCH PiMF-4P1.5	4×2×1.5	0.6	1.9	19.0	530
MRE-M2XCH PiMF-5P1.5	5×2×1.5	0.6	2.0	21.3	650
MRE-M2XCH PiMF-6P1.5	6×2×1.5	0.6	2.1	23.0	750
MRE-M2XCH PiMF-7P1.5	7×2×1.5	0.6	2.1	23.0	800
MRE-M2XCH PiMF-8P1.5	8×2×1.5	0.6	2.1	24.4	890
MRE-M2XCH PiMF-10P1.5	10×2×1.5	0.6	2.3	27.6	1110
MRE-M2XCH PiMF-12P1.5	12×2×1.5	0.6	2.3	28.7	1250
MRE-M2XCH PiMF-14P1.5	14×2×1.5	0.6	2.3	29.7	1380
MRE-M2XCH PiMF-16P1.5	16×2×1.5	0.6	2.4	32.1	1580
MRE-M2XCH PiMF-19P1.5	19×2×1.5	0.6	2.5	34.4	1820
MRE-M2XCH PiMF-20P1.5	20×2×1.5	0.6	2.5	34.4	1870
MRE-M2XCH PiMF-24P1.5	24×2×1.5	0.6	2.9	39.9	2400
MRE-M2XCH PiMF-30P1.5	30×2×1.5	0.6	3.0	43.3	2870
MRE-M2XCH PiMF-37P1.5	37×2×1.5	0.6	3.2	46.6	3410
MRE-M2XCH TiMF-1T0.75	1×3×0.75	0.5	1.3	9.7	140
MRE-M2XCH TiMF-2T0.75	2×3×0.75	0.5	1.8	15.4	320
MRE-M2XCH TiMF-3T0.75	3×3×0.75	0.5	1.8	16.2	380
MRE-M2XCH TiMF-4T0.75	4×3×0.75	0.5	1.9	17.9	460
MRE-M2XCH TiMF-5T0.75	5×3×0.75	0.5	2.0	19.8	560
MRE-M2XCH TiMF-6T0.75	6×3×0.75	0.5	2.1	22.2	670
MRE-M2XCH TiMF-7T0.75	7×3×0.75	0.5	2.1	22.2	710
MRE-M2XCH TiMF-8T0.75	8×3×0.75	0.5	2.1	23.7	800
MRE-M2XCH TiMF-10T0.75	10×3×0.75	0.5	2.2	26.7	980
MRE-M2XCH TiMF-12T0.75	12×3×0.75	0.5	2.3	28.3	1120
MRE-M2XCH TiMF-14T0.75	14×3×0.75	0.5	2.3	29.4	1240
MRE-M2XCH TiMF-16T0.75	16×3×0.75	0.5	2.4	31.4	1400
MRE-M2XCH TiMF-19T0.75	19×3×0.75	0.5	2.5	33.9	1620
MRE-M2XCH TiMF-20T0.75	20×3×0.75	0.5	2.5	34.4	1680
MRE-M2XCH TiMF-24T0.75	24×3×0.75	0.5	2.8	37.9	2070
MRE-M2XCH TiMF-30T0.75	30×3×0.75	0.5	3.0	42.0	2520
MRE-M2XCH TiMF-32T0.75	32×3×0.75	0.5	3.0	43.4	2670
MRE-M2XCH TiMF-1T1.0	1×3×1.0	0.5	1.3	10.1	160



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
MRE-M2XCH TiMF-2T1.0	2×3×1.0	0.5	1.8	16.1	360
MRE-M2XCH TiMF-3T1.0	3×3×1.0	0.5	1.9	17.3	440
MRE-M2XCH TiMF-4T1.0	4×3×1.0	0.5	1.9	18.8	530
MRE-M2XCH TiMF-5T1.0	5×3×1.0	0.5	2.0	20.8	640
MRE-M2XCH TiMF-6T1.0	6×3×1.0	0.5	2.1	23.4	770
MRE-M2XCH TiMF-7T1.0	7×3×1.0	0.5	2.1	23.4	820
MRE-M2XCH TiMF-8T1.0	8×3×1.0	0.5	2.2	25.2	930
MRE-M2XCH TiMF-10T1.0	10×3×1.0	0.5	2.3	28.4	1150
MRE-M2XCH TiMF-12T1.0	12×3×1.0	0.5	2.3	29.9	1310
MRE-M2XCH TiMF-14T1.0	14×3×1.0	0.5	2.4	31.3	1470
MRE-M2XCH TiMF-16T1.0	16×3×1.0	0.5	2.5	33.4	1660
MRE-M2XCH TiMF-19T1.0	19×3×1.0	0.5	2.8	36.5	2010
MRE-M2XCH TiMF-20T1.0	20×3×1.0	0.5	2.8	37.1	2090
MRE-M2XCH TiMF-24T1.0	24×3×1.0	0.5	2.9	40.3	2450
MRE-M2XCH TiMF-30T1.0	30×3×1.0	0.5	3.1	44.7	3000
MRE-M2XCH TiMF-32T1.0	32×3×1.0	0.5	3.1	46.2	3180
MRE-M2XCH TiMF-1T1.5	1×3×1.5	0.6	1.4	11.4	200
MRE-M2XCH TiMF-2T1.5	2×3×1.5	0.6	1.9	18.2	450
MRE-M2XCH TiMF-3T1.5	3×3×1.5	0.6	2.0	19.5	560
MRE-M2XCH TiMF-4T1.5	4×3×1.5	0.6	2.0	21.3	670
MRE-M2XCH TiMF-5T1.5	5×3×1.5	0.6	2.1	23.6	820
MRE-M2XCH TiMF-6T1.5	6×3×1.5	0.6	2.2	26.6	990
MRE-M2XCH TiMF-7T1.5	7×3×1.5	0.6	2.2	26.6	1060
MRE-M2XCH TiMF-8T1.5	8×3×1.5	0.6	2.3	28.6	1200
MRE-M2XCH TiMF-10T1.5	10×3×1.5	0.6	2.4	32.3	1480
MRE-M2XCH TiMF-12T1.5	12×3×1.5	0.6	2.5	34.3	1700
MRE-M2XCH TiMF-14T1.5	14×3×1.5	0.6	2.6	35.9	1920
MRE-M2XCH TiMF-16T1.5	16×3×1.5	0.6	2.9	38.8	2260
MRE-M2XCH TiMF-19T1.5	19×3×1.5	0.6	3.0	41.8	2620
MRE-M2XCH TiMF-20T1.5	20×3×1.5	0.6	3.0	42.5	2720
MRE-M2XCH TiMF-24T1.5	24×3×1.5	0.6	3.1	46.2	3200
MRE-M2XCH TiMF-30T1.5	30×3×1.5	0.6	3.3	51.2	3910
MRE-M2XCH TiMF-32T1.5	32×3×1.5	0.6	3.4	53.2	4180

