



IEC Standard Caledonian Offshore & Marine Cables

MariSig Fire Resistant Instrumentation & Control Cables

www.caledonian-cables.co.uk

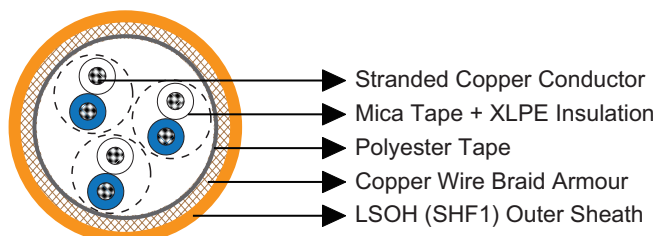
MRE-M2XCH 150/250V Mica Tape + XLPE Insulated, LSOH (SHF1) Sheathed, Armoured Fire Resistant Instrumentation & Control Cables (Multipair/Multitriple)

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). 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-1P0.75	1×2×0.75	0.5	1.3	9.1	120
MRE-M2XCH-2P0.75	2×2×0.75	0.5	1.3	10.2	150
MRE-M2XCH-3P0.75	3×2×0.75	0.5	1.8	14.6	280
MRE-M2XCH-4P0.75	4×2×0.75	0.5	1.8	15.4	320
MRE-M2XCH-5P0.75	5×2×0.75	0.5	1.9	17.2	390
MRE-M2XCH-6P0.75	6×2×0.75	0.5	1.9	18.3	440
MRE-M2XCH-7P0.75	7×2×0.75	0.5	1.9	18.3	460
MRE-M2XCH-8P0.75	8×2×0.75	0.5	2.0	19.6	520
MRE-M2XCH-10P0.75	10×2×0.75	0.5	2.0	21.7	620
MRE-M2XCH-12P0.75	12×2×0.75	0.5	2.1	22.8	700
MRE-M2XCH-14P0.75	14×2×0.75	0.5	2.1	23.6	770
MRE-M2XCH-16P0.75	16×2×0.75	0.5	2.2	25.4	870
MRE-M2XCH-19P0.75	19×2×0.75	0.5	2.2	27.0	990
MRE-M2XCH-20P0.75	20×2×0.75	0.5	2.2	27.0	1010
MRE-M2XCH-24P0.75	24×2×0.75	0.5	2.4	30.9	1240
MRE-M2XCH-30P0.75	30×2×0.75	0.5	2.5	33.5	1480
MRE-M2XCH-37P0.75	37×2×0.75	0.5	2.6	35.9	1730
MRE-M2XCH-1P1.0	1×2×1.0	0.5	1.3	9.5	130
MRE-M2XCH-2P1.0	2×2×1.0	0.5	1.3	10.7	170
MRE-M2XCH-3P1.0	3×2×1.0	0.5	1.8	15.3	320
MRE-M2XCH-4P1.0	4×2×1.0	0.5	1.8	16.2	360
MRE-M2XCH-5P1.0	5×2×1.0	0.5	1.9	18.1	440
MRE-M2XCH-6P1.0	6×2×1.0	0.5	2.0	19.5	510
MRE-M2XCH-7P1.0	7×2×1.0	0.5	2.0	19.5	530
MRE-M2XCH-8P1.0	8×2×1.0	0.5	2.0	20.7	590
MRE-M2XCH-10P1.0	10×2×1.0	0.5	2.1	23.2	730
MRE-M2XCH-12P1.0	12×2×1.0	0.5	2.1	24.1	810
MRE-M2XCH-14P1.0	14×2×1.0	0.5	2.2	25.1	900
MRE-M2XCH-16P1.0	16×2×1.0	0.5	2.2	26.9	1010
MRE-M2XCH-19P1.0	19×2×1.0	0.5	2.3	28.8	1160





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MRE-M2XCH-20P1.0	20×2×1.0	0.5	2.3	28.8	1190
MRE-M2XCH-24P1.0	24×2×1.0	0.5	2.5	33.0	1460
MRE-M2XCH-30P1.0	30×2×1.0	0.5	2.6	35.8	1740
MRE-M2XCH-37P1.0	37×2×1.0	0.5	2.9	38.8	2140
MRE-M2XCH-1P1.5	1×2×1.5	0.6	1.3	10.5	160
MRE-M2XCH-2P1.5	2×2×1.5	0.6	1.4	12.1	220
MRE-M2XCH-3P1.5	3×2×1.5	0.6	1.9	17.4	400
MRE-M2XCH-4P1.5	4×2×1.5	0.6	1.9	18.4	470
MRE-M2XCH-5P1.5	5×2×1.5	0.6	2.0	20.6	570
MRE-M2XCH-6P1.5	6×2×1.5	0.6	2.1	22.2	660
MRE-M2XCH-7P1.5	7×2×1.5	0.6	2.1	22.2	700
MRE-M2XCH-8P1.5	8×2×1.5	0.6	2.1	23.6	780
MRE-M2XCH-10P1.5	10×2×1.5	0.6	2.2	26.5	950
MRE-M2XCH-12P1.5	12×2×1.5	0.6	2.3	27.7	1070
MRE-M2XCH-14P1.5	14×2×1.5	0.6	2.3	28.7	1180
MRE-M2XCH-16P1.5	16×2×1.5	0.6	2.4	31.0	1350
MRE-M2XCH-19P1.5	19×2×1.5	0.6	2.5	33.2	1560
MRE-M2XCH-20P1.5	20×2×1.5	0.6	2.5	33.2	1590
MRE-M2XCH-24P1.5	24×2×1.5	0.6	2.9	38.5	2060
MRE-M2XCH-30P1.5	30×2×1.5	0.6	3.0	41.8	2450
MRE-M2XCH-37P1.5	37×2×1.5	0.6	3.1	44.7	2880
MRE-M2XCH-1T0.75	1×3×0.75	0.5	1.3	9.5	130
MRE-M2XCH-2T0.75	2×3×0.75	0.5	1.8	14.9	290
MRE-M2XCH-3T0.75	3×3×0.75	0.5	1.8	15.7	340
MRE-M2XCH-4T0.75	4×3×0.75	0.5	1.9	17.2	410
MRE-M2XCH-5T0.75	5×3×0.75	0.5	1.9	18.8	480
MRE-M2XCH-6T0.75	6×3×0.75	0.5	2.0	21.2	590
MRE-M2XCH-7T0.75	7×3×0.75	0.5	2.0	21.2	620
MRE-M2XCH-8T0.75	8×3×0.75	0.5	2.1	22.8	700
MRE-M2XCH-10T0.75	10×3×0.75	0.5	2.2	25.7	860
MRE-M2XCH-12T0.75	12×3×0.75	0.5	2.2	27.0	970
MRE-M2XCH-14T0.75	14×3×0.75	0.5	2.3	28.3	1080
MRE-M2XCH-16T0.75	16×3×0.75	0.5	2.3	29.9	1200
MRE-M2XCH-19T0.75	19×3×0.75	0.5	2.4	32.3	1390
MRE-M2XCH-20T0.75	20×3×0.75	0.5	2.5	33.0	1460
MRE-M2XCH-24T0.75	24×3×0.75	0.5	2.6	35.9	1710
MRE-M2XCH-30T0.75	30×3×0.75	0.5	2.9	40.1	2170
MRE-M2XCH-32T0.75	32×3×0.75	0.5	3.0	41.7	2320
MRE-M2XCH-1T1.0	1×3×1.0	0.5	1.3	9.9	150
MRE-M2XCH-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
MRE-M2XCH-3T1.0	3×3×1.0	0.5	1.8	16.5	380
MRE-M2XCH-4T1.0	4×3×1.0	0.5	1.9	18.1	470
MRE-M2XCH-5T1.0	5×3×1.0	0.5	2.0	20.1	560
MRE-M2XCH-6T1.0	6×3×1.0	0.5	2.1	22.6	680
MRE-M2XCH-7T1.0	7×3×1.0	0.5	2.1	22.6	720
MRE-M2XCH-8T1.0	8×3×1.0	0.5	2.1	24.1	810
MRE-M2XCH-10T1.0	10×3×1.0	0.5	2.2	27.2	990
MRE-M2XCH-12T1.0	12×3×1.0	0.5	2.3	28.8	1130
MRE-M2XCH-14T1.0	14×3×1.0	0.5	2.3	30.0	1260
MRE-M2XCH-16T1.0	16×3×1.0	0.5	2.4	31.9	1410
MRE-M2XCH-19T1.0	19×3×1.0	0.5	2.5	34.4	1640
MRE-M2XCH-20T1.0	20×3×1.0	0.5	2.5	35.0	1700
MRE-M2XCH-24T1.0	24×3×1.0	0.5	2.9	38.8	2110
MRE-M2XCH-30T1.0	30×3×1.0	0.5	3.0	42.8	2560
MRE-M2XCH-32T1.0	32×3×1.0	0.5	3.1	44.4	2730
MRE-M2XCH-1T1.5	1×3×1.5	0.6	1.3	11.0	180
MRE-M2XCH-2T1.5	2×3×1.5	0.6	1.9	17.7	410
MRE-M2XCH-3T1.5	3×3×1.5	0.6	1.9	18.7	490
MRE-M2XCH-4T1.5	4×3×1.5	0.6	2.0	20.6	610
MRE-M2XCH-5T1.5	5×3×1.5	0.6	2.1	22.9	740
MRE-M2XCH-6T1.5	6×3×1.5	0.6	2.2	25.8	890
MRE-M2XCH-7T1.5	7×3×1.5	0.6	2.2	25.8	950
MRE-M2XCH-8T1.5	8×3×1.5	0.6	2.3	27.7	1070
MRE-M2XCH-10T1.5	10×3×1.5	0.6	2.4	31.3	1320
MRE-M2XCH-12T1.5	12×3×1.5	0.6	2.5	33.2	1520
MRE-M2XCH-14T1.5	14×3×1.5	0.6	2.5	34.6	1690
MRE-M2XCH-16T1.5	16×3×1.5	0.6	2.8	37.3	1990
MRE-M2XCH-19T1.5	19×3×1.5	0.6	2.9	40.3	2310
MRE-M2XCH-20T1.5	20×3×1.5	0.6	3.0	41.1	2420
MRE-M2XCH-24T1.5	24×3×1.5	0.6	3.1	44.7	2840
MRE-M2XCH-30T1.5	30×3×1.5	0.6	3.3	49.5	3460
MRE-M2XCH-32T1.5	32×3×1.5	0.6	3.3	51.2	3670

*: 2 pairs are assembled as a quad.

