



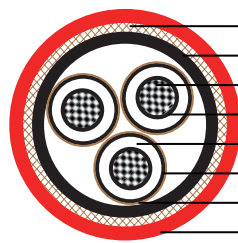
MTX 3.6/6kV, 6/10kV, 8.7/15kV XLPE Insulated, LSOH (SHF1) Sheathed, Armoured Flame Retardant MV Power Cables (SHF1 Inner Sheath)

Application

These armoured MV cables are used on board of ships in all locations for fixed installations complying with IEC standards 60092-352. These cables are flame retardant, low smoke & halogen free.

Standards

- IEC 60092-350/351/354/359
- IEC 60332-1
- IEC 60332-3-22
- IEC 60754-1/2
- IEC 61034



- ▶ Copper/Galvanized Steel Wire Braid Armour
- ▶ LSOH(SHF1) Inner Sheath
- ▶ Stranded Copper Conductor
- ▶ Conductor Screen
- ▶ XLPE Insulation
- ▶ Insulation Screen
- ▶ Metallic Screen
- ▶ LSOH(SHF1) Outer Sheath

Construction

- Conductors: Class 2 stranded copper conductor.
- Conductor Screen: Semi-conducting layer (tape/compound).
- Insulation: XLPE.
- Insulation Screen: Semi-conducting layer (tape/compound).
- Metallic Screen: Copper tape
- Inner Sheath: LSOH (SHF1).
- Armour: Copper wire braid or galvanized steel wire braid.
- Outer Sheath: LSOH (SHF1). SHF2 can be offered upon request.

Core Identification

Coloured tape shall be inserted under metallic screen.
3core: Red, Yellow, Blue.



Mechanical and Thermal Properties

Bending Radius for Fixed Installations: $12 \times OD$ (single core); $9 \times OD$ (three core)
 Temperature Range: $-30^{\circ}\text{C} \sim +80^{\circ}\text{C}$

Dimensions and Weight

3.6/6kV

Part No.	Construction No. of cores \times Cross section (mm ²)	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm		Nominal Overall Diameter mm	Nominal Weight kg/km
			Inner	Outer		
MTX-3.6/6KV-RZ1MZ1-1C10	1 \times 10	2.5	1.3	1.0	19.2	560
MTX-3.6/6KV-RZ1MZ1-1C16	1 \times 16	2.5	1.3	1.0	20.1	650
MTX-3.6/6KV-RZ1MZ1-1C25	1 \times 25	2.5	1.4	1.1	21.8	800
MTX-3.6/6KV-RZ1MZ1-1C35	1 \times 35	2.5	1.4	1.1	23.0	940
MTX-3.6/6KV-RZ1MZ1-1C50	1 \times 50	2.5	1.5	1.2	24.7	1120
MTX-3.6/6KV-RZ1MZ1-1C70	1 \times 70	2.5	1.6	1.2	26.7	1390
MTX-3.6/6KV-RZ1MZ1-1C95	1 \times 95	2.5	1.6	1.3	28.8	1720
MTX-3.6/6KV-RZ1MZ1-1C120	1 \times 120	2.5	1.7	1.3	30.6	2020
MTX-3.6/6KV-RZ1MZ1-1C150	1 \times 150	2.5	1.8	1.3	32.4	2350
MTX-3.6/6KV-RZ1MZ1-1C185	1 \times 185	2.5	1.8	1.4	34.4	2780
MTX-3.6/6KV-RZ1MZ1-1C240	1 \times 240	2.6	2.0	1.5	38.4	3580
MTX-3.6/6KV-RZ1MZ1-1C300	1 \times 300	2.8	2.1	1.6	41.6	4310
MTX-3.6/6KV-RZ1MZ1-1C400	1 \times 400	3.0	2.2	1.7	45.8	5440
MTX-3.6/6KV-RZ1MZ1-1C500	1 \times 500	3.2	2.4	1.7	49.3	6450
MTX-3.6/6KV-RZ1MZ1-1C630	1 \times 630	3.2	2.5	1.9	54.1	8110
MTX-3.6/6KV-RZ1MZ1-3C10	3 \times 10	2.5	1.9	1.4	36.3	1710
MTX-3.6/6KV-RZ1MZ1-3C16	3 \times 16	2.5	2.0	1.5	38.8	2030
MTX-3.6/6KV-RZ1MZ1-3C25	3 \times 25	2.5	2.1	1.6	42.0	2500
MTX-3.6/6KV-RZ1MZ1-3C35	3 \times 35	2.5	2.2	1.6	44.8	2950
MTX-3.6/6KV-RZ1MZ1-3C50	3 \times 50	2.5	2.3	1.7	48.0	3510
MTX-3.6/6KV-RZ1MZ1-3C70	3 \times 70	2.5	2.5	1.8	52.5	4420
MTX-3.6/6KV-RZ1MZ1-3C95	3 \times 95	2.5	2.6	1.9	57.0	5470
MTX-3.6/6KV-RZ1MZ1-3C120	3 \times 120	2.5	2.8	2.0	61.0	6480
MTX-3.6/6KV-RZ1MZ1-3C150	3 \times 150	2.5	2.9	2.1	64.9	7540
MTX-3.6/6KV-RZ1MZ1-3C185	3 \times 185	2.5	3.1	2.2	69.3	8940
MTX-3.6/6KV-RZ1MZ1-3C240	3 \times 240	2.6	3.3	2.4	76.4	11180

6/10kV

Part No.	Construction No. of cores \times Cross section (mm ²)	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm		Nominal Overall Diameter mm	Nominal Weight kg/km
			Inner	Outer		
MTX-6/10KV-RZ1MZ1-1C16	1 \times 16	3.4	1.4	1.1	22.3	750
MTX-6/10KV-RZ1MZ1-1C25	1 \times 25	3.4	1.5	1.1	23.8	890
MTX-6/10KV-RZ1MZ1-1C35	1 \times 35	3.4	1.5	1.2	25.2	1040
MTX-6/10KV-RZ1MZ1-1C50	1 \times 50	3.4	1.6	1.2	26.7	1220
MTX-6/10KV-RZ1MZ1-1C70	1 \times 70	3.4	1.6	1.2	28.5	1480



IEC Standard Caledonian Offshore & Marine Cables

MariTox Marine Flame Retardant Medium Voltage Cables

www.caledonian-cables.co.uk

Part No.	Construction No. of cores×Cross section(mm ²)	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm		Nominal Overall Diameter mm	Nominal Weight kg/km
			Inner	Outer		
MTX-6/10KV-RZ1MZ1-1C95	1×95	3.4	1.7	1.3	30.8	1830
MTX-6/10KV-RZ1MZ1-1C120	1×120	3.4	1.8	1.3	32.6	2140
MTX-6/10KV-RZ1MZ1-1C150	1×150	3.4	1.8	1.4	34.4	2470
MTX-6/10KV-RZ1MZ1-1C185	1×185	3.4	1.9	1.4	36.9	2990
MTX-6/10KV-RZ1MZ1-1C240	1×240	3.4	2.0	1.5	40.0	3680
MTX-6/10KV-RZ1MZ1-1C300	1×300	3.4	2.1	1.6	42.8	4390
MTX-6/10KV-RZ1MZ1-1C400	1×400	3.4	2.3	1.7	46.8	5510
MTX-6/10KV-RZ1MZ1-1C500	1×500	3.4	2.4	1.8	49.9	6480
MTX-6/10KV-RZ1MZ1-1C630	1×630	3.4	2.5	1.9	54.5	8130
MTX-6/10KV-RZ1MZ1-3C16	3×16	3.4	2.1	1.6	43.1	2350
MTX-6/10KV-RZ1MZ1-3C25	3×25	3.4	2.2	1.7	46.3	2840
MTX-6/10KV-RZ1MZ1-3C35	3×35	3.4	2.3	1.7	49.1	3310
MTX-6/10KV-RZ1MZ1-3C50	3×50	3.4	2.5	1.8	52.5	3910
MTX-6/10KV-RZ1MZ1-3C70	3×70	3.4	2.6	1.9	56.8	4820
MTX-6/10KV-RZ1MZ1-3C95	3×95	3.4	2.8	2.0	61.4	5930
MTX-6/10KV-RZ1MZ1-3C120	3×120	3.4	2.9	2.1	65.3	6940
MTX-6/10KV-RZ1MZ1-3C150	3×150	3.4	3.1	2.2	69.3	8050
MTX-6/10KV-RZ1MZ1-3C185	3×185	3.4	3.2	2.3	73.6	9460
MTX-6/10KV-RZ1MZ1-3C240	3×240	3.4	3.4	2.5	80.2	11680

8.7/15kV

Part No.	Construction No. of cores×Cross section(mm ²)	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm		Nominal Overall Diameter mm	Nominal Weight kg/km
			Inner	Outer		
MTX-8.7/15KV-RZ1MZ1-1C25	1×25	4.5	1.6	1.2	26.4	1030
MTX-8.7/15KV-RZ1MZ1-1C35	1×35	4.5	1.6	1.2	27.6	1180
MTX-8.7/15KV-RZ1MZ1-1C50	1×50	4.5	1.7	1.3	29.3	1370
MTX-8.7/15KV-RZ1MZ1-1C70	1×70	4.5	1.7	1.3	31.1	1650
MTX-8.7/15KV-RZ1MZ1-1C95	1×95	4.5	1.8	1.4	33.4	2010
MTX-8.7/15KV-RZ1MZ1-1C120	1×120	4.5	1.9	1.4	35.7	2410
MTX-8.7/15KV-RZ1MZ1-1C150	1×150	4.5	1.9	1.5	37.5	2760
MTX-8.7/15KV-RZ1MZ1-1C185	1×185	4.5	2.0	1.5	39.5	3200
MTX-8.7/15KV-RZ1MZ1-1C240	1×240	4.5	2.1	1.6	42.6	3910
MTX-8.7/15KV-RZ1MZ1-1C300	1×300	4.5	2.2	1.6	45.2	4610
MTX-8.7/15KV-RZ1MZ1-1C400	1×400	4.5	2.3	1.7	49.0	5730
MTX-8.7/15KV-RZ1MZ1-1C500	1×500	4.5	2.5	1.8	52.3	6740
MTX-8.7/15KV-RZ1MZ1-1C630	1×630	4.5	2.6	1.9	56.9	8400
MTX-8.7/15KV-RZ1MZ1-3C25	3×25	4.5	2.4	1.8	51.6	3300
MTX-8.7/15KV-RZ1MZ1-3C35	3×35	4.5	2.5	1.9	54.6	3820
MTX-8.7/15KV-RZ1MZ1-3C50	3×50	4.5	2.6	1.9	57.6	4400
MTX-8.7/15KV-RZ1MZ1-3C70	3×70	4.5	2.8	2.0	62.1	5370
MTX-8.7/15KV-RZ1MZ1-3C95	3×95	4.5	3.0	2.2	67.0	6550
MTX-8.7/15KV-RZ1MZ1-3C120	3×120	4.5	3.1	2.3	70.8	7580
MTX-8.7/15KV-RZ1MZ1-3C150	3×150	4.5	3.2	2.3	74.5	8680
MTX-8.7/15KV-RZ1MZ1-3C185	3×185	4.5	3.4	2.5	79.2	10180
MTX-8.7/15KV-RZ1MZ1-3C240	3×240	4.5	3.6	2.6	85.6	12420