



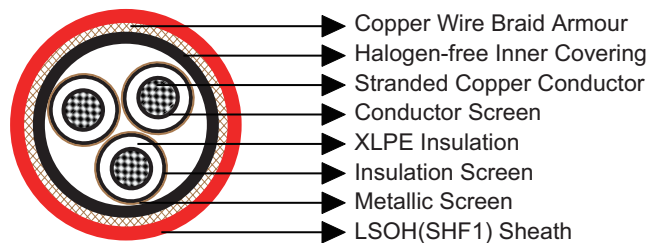
MTX 3.6/6kV, 6/10kV, 8.7/15kV XLPE Insulated, LSOH (SHF1) Sheathed, Armoured Flame Retardant MV Power Cables (Halogen Free Inner Covering)

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



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 Covering: Halogen free compound.
- Armour: Copper 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.



IEC Standard Caledonian Offshore & Marine Cables

MariTox Marine Flame Retardant Medium Voltage Cables

www.caledonian-cables.co.uk

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 |
|------------------------|--|---------------------------------------|-----------------------------------|-----------------------------------|----------------------------|
| MTX-3.6/6KV-RMZ1-1C10 | 1 \times 10 | 2.5 | 1.5 | 19.6 | 580 |
| MTX-3.6/6KV-RMZ1-1C16 | 1 \times 16 | 2.5 | 1.5 | 20.5 | 670 |
| MTX-3.6/6KV-RMZ1-1C25 | 1 \times 25 | 2.5 | 1.5 | 21.8 | 800 |
| MTX-3.6/6KV-RMZ1-1C35 | 1 \times 35 | 2.5 | 1.6 | 23.2 | 940 |
| MTX-3.6/6KV-RMZ1-1C50 | 1 \times 50 | 2.5 | 1.6 | 24.5 | 1100 |
| MTX-3.6/6KV-RMZ1-1C70 | 1 \times 70 | 2.5 | 1.7 | 26.5 | 1380 |
| MTX-3.6/6KV-RMZ1-1C95 | 1 \times 95 | 2.5 | 1.8 | 28.6 | 1700 |
| MTX-3.6/6KV-RMZ1-1C120 | 1 \times 120 | 2.5 | 1.9 | 30.4 | 2000 |
| MTX-3.6/6KV-RMZ1-1C150 | 1 \times 150 | 2.5 | 1.9 | 32.0 | 2320 |
| MTX-3.6/6KV-RMZ1-1C185 | 1 \times 185 | 2.5 | 2.0 | 34.4 | 2770 |
| MTX-3.6/6KV-RMZ1-1C240 | 1 \times 240 | 2.6 | 2.1 | 38.0 | 3530 |
| MTX-3.6/6KV-RMZ1-1C300 | 1 \times 300 | 2.8 | 2.3 | 41.2 | 4270 |
| MTX-3.6/6KV-RMZ1-1C400 | 1 \times 400 | 3.0 | 2.4 | 45.6 | 5410 |
| MTX-3.6/6KV-RMZ1-1C500 | 1 \times 500 | 3.2 | 2.5 | 48.9 | 6390 |
| MTX-3.6/6KV-RMZ1-1C630 | 1 \times 630 | 3.2 | 2.7 | 53.5 | 8030 |
| MTX-3.6/6KV-RMZ1-3C10 | 3 \times 10 | 2.5 | 2.0 | 35.4 | 1620 |
| MTX-3.6/6KV-RMZ1-3C16 | 3 \times 16 | 2.5 | 2.2 | 38.4 | 2030 |
| MTX-3.6/6KV-RMZ1-3C25 | 3 \times 25 | 2.5 | 2.3 | 41.4 | 2470 |
| MTX-3.6/6KV-RMZ1-3C35 | 3 \times 35 | 2.5 | 2.4 | 44.2 | 2930 |
| MTX-3.6/6KV-RMZ1-3C50 | 3 \times 50 | 2.5 | 2.5 | 47.6 | 3510 |
| MTX-3.6/6KV-RMZ1-3C70 | 3 \times 70 | 2.5 | 2.7 | 51.9 | 4390 |
| MTX-3.6/6KV-RMZ1-3C95 | 3 \times 95 | 2.5 | 2.8 | 56.6 | 5470 |
| MTX-3.6/6KV-RMZ1-3C120 | 3 \times 120 | 2.5 | 3.0 | 60.4 | 6450 |
| MTX-3.6/6KV-RMZ1-3C150 | 3 \times 150 | 2.5 | 3.1 | 64.1 | 7490 |
| MTX-3.6/6KV-RMZ1-3C185 | 3 \times 185 | 2.5 | 3.3 | 68.3 | 8850 |
| MTX-3.6/6KV-RMZ1-3C240 | 3 \times 240 | 2.6 | 3.5 | 75.4 | 11080 |

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 |
|----------------------|--|---------------------------------------|-----------------------------------|-----------------------------------|----------------------------|
| MTX-6/10KV-RMZ1-1C16 | 1 \times 16 | 3.4 | 1.6 | 22.5 | 750 |
| MTX-6/10KV-RMZ1-1C25 | 1 \times 25 | 3.4 | 1.6 | 23.8 | 890 |
| MTX-6/10KV-RMZ1-1C35 | 1 \times 35 | 3.4 | 1.7 | 25.2 | 1040 |
| MTX-6/10KV-RMZ1-1C50 | 1 \times 50 | 3.4 | 1.7 | 26.5 | 1200 |



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| 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 |
|-----------------------|---|---------------------------------------|-----------------------------------|-----------------------------------|----------------------------|
| MTX-6/10KV-RMZ1-1C70 | 1×70 | 3.4 | 1.8 | 28.5 | 1480 |
| MTX-6/10KV-RMZ1-1C95 | 1×95 | 3.4 | 1.9 | 30.6 | 1810 |
| MTX-6/10KV-RMZ1-1C120 | 1×120 | 3.4 | 1.9 | 32.2 | 2100 |
| MTX-6/10KV-RMZ1-1C150 | 1×150 | 3.4 | 2.0 | 34.4 | 2470 |
| MTX-6/10KV-RMZ1-1C185 | 1×185 | 3.4 | 2.1 | 36.9 | 2980 |
| MTX-6/10KV-RMZ1-1C240 | 1×240 | 3.4 | 2.2 | 39.8 | 3650 |
| MTX-6/10KV-RMZ1-1C300 | 1×300 | 3.4 | 2.3 | 42.4 | 4340 |
| MTX-6/10KV-RMZ1-1C400 | 1×400 | 3.4 | 2.5 | 46.6 | 5480 |
| MTX-6/10KV-RMZ1-1C500 | 1×500 | 3.4 | 2.6 | 49.5 | 6430 |
| MTX-6/10KV-RMZ1-1C630 | 1×630 | 3.4 | 2.7 | 53.9 | 8040 |
| MTX-6/10KV-RMZ1-3C16 | 3×16 | 3.4 | 2.3 | 42.5 | 2330 |
| MTX-6/10KV-RMZ1-3C25 | 3×25 | 3.4 | 2.4 | 45.9 | 2840 |
| MTX-6/10KV-RMZ1-3C35 | 3×35 | 3.4 | 2.5 | 48.7 | 3310 |
| MTX-6/10KV-RMZ1-3C50 | 3×50 | 3.4 | 2.7 | 51.9 | 3890 |
| MTX-6/10KV-RMZ1-3C70 | 3×70 | 3.4 | 2.8 | 56.4 | 4820 |
| MTX-6/10KV-RMZ1-3C95 | 3×95 | 3.4 | 3.0 | 60.8 | 5900 |
| MTX-6/10KV-RMZ1-3C120 | 3×120 | 3.4 | 3.1 | 64.5 | 6880 |
| MTX-6/10KV-RMZ1-3C150 | 3×150 | 3.4 | 3.3 | 68.3 | 7960 |
| MTX-6/10KV-RMZ1-3C185 | 3×185 | 3.4 | 3.4 | 72.8 | 9390 |
| MTX-6/10KV-RMZ1-3C240 | 3×240 | 3.4 | 3.7 | 79.2 | 11570 |

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 |
|-------------------------|---|---------------------------------------|-----------------------------------|-----------------------------------|----------------------------|
| MTX-8.7/15KV-RMZ1-1C25 | 1×25 | 4.5 | 1.7 | 26.2 | 1020 |
| MTX-8.7/15KV-RMZ1-1C35 | 1×35 | 4.5 | 1.8 | 27.6 | 1170 |
| MTX-8.7/15KV-RMZ1-1C50 | 1×50 | 4.5 | 1.8 | 28.9 | 1340 |
| MTX-8.7/15KV-RMZ1-1C70 | 1×70 | 4.5 | 1.9 | 30.9 | 1630 |
| MTX-8.7/15KV-RMZ1-1C95 | 1×95 | 4.5 | 2.0 | 33.4 | 2000 |
| MTX-8.7/15KV-RMZ1-1C120 | 1×120 | 4.5 | 2.0 | 35.0 | 2300 |
| MTX-8.7/15KV-RMZ1-1C150 | 1×150 | 4.5 | 2.1 | 37.3 | 2730 |
| MTX-8.7/15KV-RMZ1-1C185 | 1×185 | 4.5 | 2.2 | 39.3 | 3180 |
| MTX-8.7/15KV-RMZ1-1C240 | 1×240 | 4.5 | 2.3 | 42.2 | 3860 |
| MTX-8.7/15KV-RMZ1-1C300 | 1×300 | 4.5 | 2.4 | 45.2 | 4600 |
| MTX-8.7/15KV-RMZ1-1C400 | 1×400 | 4.5 | 2.5 | 48.8 | 5690 |
| MTX-8.7/15KV-RMZ1-1C500 | 1×500 | 4.5 | 2.7 | 51.9 | 6680 |
| MTX-8.7/15KV-RMZ1-1C630 | 1×630 | 4.5 | 2.8 | 56.7 | 8360 |
| MTX-8.7/15KV-RMZ1-3C25 | 3×25 | 4.5 | 2.6 | 51.0 | 3280 |
| MTX-8.7/15KV-RMZ1-3C35 | 3×35 | 4.5 | 2.7 | 53.8 | 3770 |
| MTX-8.7/15KV-RMZ1-3C50 | 3×50 | 4.5 | 2.9 | 57.4 | 4430 |
| MTX-8.7/15KV-RMZ1-3C70 | 3×70 | 4.5 | 3.0 | 61.5 | 5340 |
| MTX-8.7/15KV-RMZ1-3C95 | 3×95 | 4.5 | 3.2 | 66.0 | 6460 |
| MTX-8.7/15KV-RMZ1-3C120 | 3×120 | 4.5 | 3.3 | 69.6 | 7460 |
| MTX-8.7/15KV-RMZ1-3C150 | 3×150 | 4.5 | 3.5 | 73.9 | 8640 |
| MTX-8.7/15KV-RMZ1-3C185 | 3×185 | 4.5 | 3.6 | 78.0 | 10040 |
| MTX-8.7/15KV-RMZ1-3C240 | 3×240 | 4.5 | 3.9 | 84.4 | 12270 |