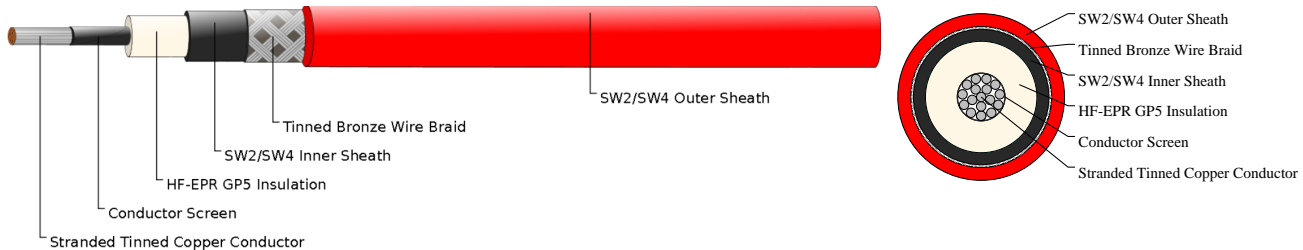# Caledonian

BS 6883&BS 7917 Caledonian Offshore & Marine Cables MV Flame Retardant Power & Control Cables

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3.8/6.6kV HF-EPR Insulated, SW2/SW4 Sheathed Armoured Flame Retardant Power & Control Cables (Non Radial Field) 1C16.0

Labels (left diagram):
- SW2/SW4 Outer Sheath
- Tinned Bronze Wire Braid
- SW2/SW4 Inner Sheath
- HF-EPR GP5 Insulation
- Conductor Screen
- Stranded Tinned Copper Conductor

Labels (cross-section):
- SW2/SW4 Outer Sheath
- Tinned Bronze Wire Braid
- SW2/SW4 Inner Sheath
- HF-EPR GP5 Insulation
- Conductor Screen
- Stranded Tinned Copper Conductor

APPLICATIONS

These medium voltage elastomeric insulated cables are designed for fixed wiring in ships and on mobile offshore units, suitable for use in power and control applications.

STANDARDS

BS 6883
IEC 60332-3A Flame retardant
IEC 60754-1; IEC 60754-2 Corrosivity
IEC 61034-2 Smoke density
Cold bend and impact (-40°C) (on request)
CSA C22.2 No. 38-95 (on request)

VOLTAGE RATING

3.8/6.6kV

CABLE CONSTRUCTION

Conductor: Tinned copper wire stranded circular cl. 2 BS 6360/IEC 60228.
Conductor Screen: Semiconducting layer or tape.
Insulation: HF-EPR GP5 according to BS 7655 1.2.
Inner Sheath: Halogen free thermosetting compound SW4 according to BS 7655 2.6 or reduced halogen thermosetting compound SW2 according to BS 7655 2.6.
Armour: Galvanized steel wire braid or tinned bronze wire braid (single core).
Outer Sheath: Halogen free thermosetting compound SW4 according to BS 7655 2.6 or reduced halogen thermosetting compound SW2 according to BS 7655 2.6.

COLOUR CODE

Single core：Natural colour of the compound

PHYSICAL AND THERMAL PROPERTIES

Temperature Range: -40℃ ~ +90℃

MECHANICAL PROPERTIES

Minimum Internal Bending Radius: 12×OD

DIMENSION AND PARAMETERS

No. of Cores × Cross-sectional Area	Nominal Insulation Thickness	Nominal Inner Sheath Thickness	Diameter Over Inner Sheath (min.)	Diameter Over Inner Sheath (max.)	Nominal Armour Wire Diameter	Nominal Outer Sheath Thickness	Overall Diameter (min.)	Overall Diameter (max.)	Approx. Weight
No.×mm²	mm	mm	mm	mm	mm	mm	mm	mm	kg/km
1x16	3.4	1.3	13.9	15.7	0.3	1.4	18.0	20.4	703