



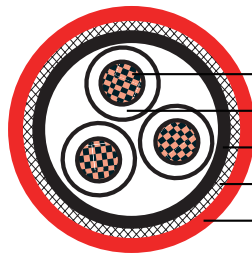
1.9/3.3kV, 3.3/3.3kV HF-EPR Insulated, SW2/SW4 Sheathed Armoured Flame Retardant Power & Control Cables

Application

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)



- Stranded Tinned Copper Conductor
- HF-EPR GP5 Insulation
- SW2/SW4 Inner Sheath
- Galvanized Steel Wire/Tinned Bronze Wire Braid
- SW2/SW4 Outer Sheath

Construction

- Conductor: Tinned copper wire stranded circular cl. 2 BS 6360/IEC 60228.
- 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.

Mechanical and Thermal Properties

Minimum Internal Bending Radius: $6 \times OD$
Temperature Range: -40°C ~ +90°C



Dimensions and Weight

1.9/3.3kV

| Construction No. of cores×Cross section(mm ²) | Nominal Insulation Thickness mm | Nominal Inner Sheath Thickness mm | Minimum Diameter Over Inner Sheath mm | Maximum Diameter Over Inner Sheath mm | Nominal Armour Wire Diameter mm | Nominal Outer Sheath Thickness mm | Minimum Overall Diameter mm | Maximum Overall Diameter mm | Approx. Weight kg/km |
|--|--|---|---|---|---|---|--------------------------------------|--------------------------------------|----------------------------|
| 1×10 | 2.2 | 1.1 | 10.2 | 11.9 | 0.3 | 1.3 | 14.2 | 16.2 | 398 |
| 1×16 | 2.2 | 1.2 | 11.4 | 13.1 | 0.3 | 1.3 | 15.4 | 17.6 | 499 |
| 1×25 | 2.2 | 1.2 | 13.0 | 14.8 | 0.3 | 1.4 | 17.1 | 19.5 | 675 |
| 1×35 | 2.2 | 1.3 | 14.1 | 15.9 | 0.3 | 1.4 | 18.2 | 20.6 | 793 |
| 1×50 | 2.2 | 1.3 | 15.3 | 17.2 | 0.3 | 1.5 | 19.6 | 22.4 | 970 |
| 1×70 | 2.2 | 1.4 | 17.2 | 19.2 | 0.3 | 1.6 | 21.7 | 24.6 | 1269 |
| 1×95 | 2.4 | 1.5 | 19.4 | 21.9 | 0.3 | 1.7 | 24.2 | 27.2 | 1623 |
| 1×120 | 2.4 | 1.6 | 21.3 | 23.8 | 0.3 | 1.7 | 26.0 | 29.1 | 1983 |
| 1×150 | 2.4 | 1.6 | 22.8 | 25.4 | 0.45 | 1.8 | 28.4 | 31.6 | 2423 |
| 1×185 | 2.4 | 1.7 | 24.8 | 27.4 | 0.45 | 1.9 | 30.6 | 34.3 | 2917 |
| 1×240 | 2.4 | 1.8 | 27.5 | 30.3 | 0.45 | 2.0 | 33.5 | 37.3 | 3654 |
| 1×300 | 2.4 | 1.9 | 30.0 | 33.2 | 0.45 | 2.1 | 36.2 | 40.1 | 4428 |
| 1×400 | 2.6 | 2.0 | 33.8 | 37.1 | 0.45 | 2.3 | 40.3 | 44.8 | 5416 |
| 1×500 | 2.8 | 2.2 | 37.6 | 41.1 | 0.45 | 2.5 | 44.5 | 49.2 | 6726 |
| 1×630 | 2.8 | 2.3 | 41.2 | 45.2 | 0.45 | 2.6 | 48.4 | 53.6 | 8562 |
| 3×10 | 2.2 | 1.5 | 20.4 | 22.9 | 0.3 | 1.7 | 25.1 | 28.2 | 1052 |
| 3×16 | 2.2 | 1.6 | 22.8 | 25.3 | 0.3 | 1.8 | 27.7 | 30.8 | 1357 |
| 3×25 | 2.2 | 1.8 | 26.6 | 29.3 | 0.45 | 2.0 | 32.6 | 36.3 | 2032 |
| 3×35 | 2.2 | 1.8 | 28.4 | 31.2 | 0.45 | 2.1 | 34.6 | 38.5 | 2382 |
| 3×50 | 2.2 | 1.9 | 31.2 | 34.4 | 0.45 | 2.2 | 37.6 | 41.6 | 2936 |
| 3×70 | 2.2 | 2.1 | 35.3 | 38.7 | 0.45 | 2.4 | 42.1 | 46.7 | 3877 |
| 3×95 | 2.4 | 2.3 | 40.2 | 44.1 | 0.45 | 2.6 | 47.4 | 52.1 | 4995 |
| 3×120 | 2.4 | 2.4 | 44.0 | 48.1 | 0.45 | 2.7 | 51.4 | 56.7 | 6118 |
| 3×150 | 2.4 | 2.6 | 47.6 | 51.8 | 0.45 | 2.9 | 55.3 | 60.8 | 7284 |
| 3×185 | 2.4 | 2.7 | 51.7 | 56.4 | 0.45 | 3.0 | 59.6 | 65.7 | 8750 |
| 3×240 | 2.4 | 3.0 | 57.7 | 62.9 | 0.45 | 3.3 | 66.2 | 72.6 | 11118 |
| 3×300 | 2.4 | 3.2 | 63.1 | 68.6 | 0.45 | 3.5 | 72.0 | 79.0 | 13531 |

3.3/3.3kV

| Construction No. of cores×Cross section(mm ²) | Nominal Insulation Thickness mm | Nominal Inner Sheath Thickness mm | Minimum Diameter Over Inner Sheath mm | Maximum Diameter Over Inner Sheath mm | Nominal Armour Wire Diameter mm | Nominal Outer Sheath Thickness mm | Minimum Overall Diameter mm | Maximum Overall Diameter mm | Approx. Weight kg/km |
|--|--|---|---|---|---|---|--------------------------------------|--------------------------------------|----------------------------|
| 1×10 | 3.0 | 1.2 | 12.0 | 13.7 | 0.3 | 1.4 | 16.1 | 18.4 | 483 |
| 1×16 | 3.0 | 1.2 | 13.0 | 14.7 | 0.3 | 1.4 | 17.1 | 19.4 | 579 |
| 1×25 | 3.0 | 1.3 | 14.7 | 16.7 | 0.3 | 1.5 | 19.1 | 21.5 | 774 |
| 1×35 | 3.0 | 1.3 | 15.6 | 17.6 | 0.3 | 1.5 | 19.9 | 22.8 | 885 |
| 1×50 | 3.0 | 1.4 | 17.0 | 19.0 | 0.3 | 1.6 | 21.5 | 24.4 | 1082 |



MV Flame Retardant Power & Control Cables

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| Construction No. of cores×Cross section(mm ²) | Nominal Insulation Thickness mm | Nominal Inner Sheath Thickness mm | Minimum Diameter Over Inner Sheath mm | Maximum Diameter Over Inner Sheath mm | Nominal Armour Wire Diameter mm | Nominal Outer Sheath Thickness mm | Minimum Overall Diameter mm | Maximum Overall Diameter mm | Approx. Weight kg/km |
|--|--|---|---|---|---|---|--------------------------------------|--------------------------------------|----------------------------|
| 1×70 | 3.0 | 1.5 | 18.9 | 21.0 | 0.3 | 1.6 | 23.4 | 26.4 | 1377 |
| 1×95 | 3.0 | 1.5 | 20.6 | 23.1 | 0.3 | 1.7 | 25.3 | 28.4 | 1699 |
| 1×120 | 3.0 | 1.6 | 22.5 | 25.0 | 0.3 | 1.8 | 27.4 | 30.5 | 2081 |
| 1×150 | 3.0 | 1.7 | 24.1 | 26.8 | 0.45 | 1.9 | 30.0 | 33.6 | 2550 |
| 1×185 | 3.0 | 1.7 | 26.0 | 28.6 | 0.45 | 2.0 | 32.0 | 35.7 | 3032 |
| 1×240 | 3.0 | 1.8 | 28.7 | 31.8 | 0.45 | 2.1 | 34.8 | 38.7 | 3780 |
| 1×300 | 3.0 | 1.9 | 31.2 | 34.4 | 0.45 | 2.2 | 37.6 | 41.5 | 4563 |
| 1×400 | 3.0 | 2.1 | 34.7 | 38.1 | 0.45 | 2.3 | 41.3 | 45.8 | 5514 |
| 1×500 | 3.2 | 2.2 | 38.4 | 41.9 | 0.45 | 2.5 | 45.3 | 50.0 | 6807 |
| 1×630 | 3.2 | 2.4 | 42.2 | 46.2 | 0.45 | 2.6 | 49.4 | 54.6 | 8691 |
| 3×10 | 3.0 | 1.7 | 24.1 | 26.7 | 0.45 | 1.9 | 29.9 | 33.6 | 1404 |
| 3×16 | 3.0 | 1.8 | 26.5 | 29.2 | 0.45 | 2.0 | 32.5 | 36.2 | 1738 |
| 3×25 | 3.0 | 1.9 | 30.1 | 33.2 | 0.45 | 2.1 | 36.3 | 40.2 | 2314 |
| 3×35 | 3.0 | 2.0 | 32.1 | 35.4 | 0.45 | 2.2 | 38.5 | 42.9 | 2701 |
| 3×50 | 3.0 | 2.1 | 34.9 | 38.3 | 0.45 | 2.3 | 41.5 | 46.0 | 3278 |
| 3×70 | 3.0 | 2.2 | 38.9 | 42.7 | 0.45 | 2.5 | 45.8 | 50.5 | 4226 |
| 3×95 | 3.0 | 2.4 | 42.9 | 46.9 | 0.45 | 2.7 | 50.2 | 55.5 | 5297 |
| 3×120 | 3.0 | 2.5 | 46.7 | 50.9 | 0.45 | 2.8 | 54.2 | 59.7 | 6442 |
| 3×150 | 3.0 | 2.7 | 50.3 | 54.9 | 0.45 | 3.0 | 58.2 | 64.2 | 7631 |
| 3×185 | 3.0 | 2.8 | 54.4 | 59.2 | 0.45 | 3.2 | 62.7 | 68.9 | 9158 |
| 3×240 | 3.0 | 3.1 | 60.4 | 65.7 | 0.45 | 3.4 | 69.1 | 76.0 | 11526 |

