



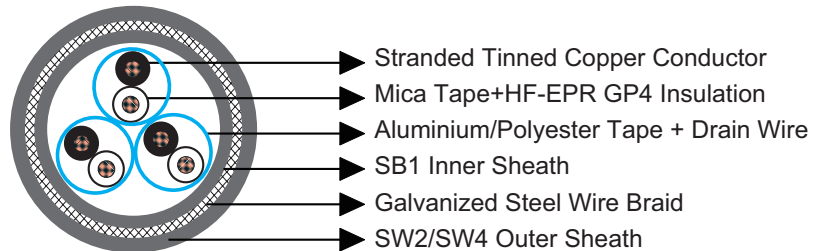
150/250V HF-EPR Insulated, SW2/SW4 Sheathed, Individually Screened Armoured Fire Resistant Instrumentation & Control Cables

Application

These fire resistant elastomeric insulated cables are designed for fixed wiring in ships and on mobile offshore units, suitable for use in instrumentation, lighting and control circuits where fire integrity is essential.

Standards

- BS 7917
- IEC 60331-31 Fire resistant
- 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)



Construction

- Conductor: Tinned copper wire stranded circular cl. 2 BS 6360/IEC 60228.
- Insulation: Mica tape + HF-EPR GP4 according to BS 7655 1.2.
- Lay-up: Pairs, triples.
- Individual Screen: Aluminium/polyester tape + drain wire tinned copper.
- Inner Sheath: Halogen free thermosetting compound SB1 according to BS 7917.
- Armour: Galvanized steel wire braid. Tinned bronze wire braid can be offered upon request.
- 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.



Flire Resistant Instrumentation & Control Cables

www.caledonian-cables.co.uk

Mechanical and Thermal Properties

Minimum Internal Bending Radius: $8 \times OD$
 Temperature Range: $-40^{\circ}C \sim +90^{\circ}C$

Dimensions and Weight

| 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 |
|---|---------------------------------|-----------------------------------|---------------------------------------|---------------------------------------|---------------------------------|-----------------------------------|-----------------------------|-----------------------------|----------------------|
| Multipair | | | | | | | | | |
| 1×2×0.75 | 0.8 | 1.0 | 8.1 | 9.8 | 0.3 | 1.2 | 11.9 | 13.7 | 270 |
| 3×2×0.75 | 0.8 | 1.2 | 14.0 | 16.0 | 0.3 | 1.4 | 18.1 | 20.5 | 500 |
| 7×2×0.75 | 0.8 | 1.4 | 19.0 | 21.1 | 0.3 | 1.6 | 23.5 | 26.4 | 840 |
| 12×2×0.75 | 0.8 | 1.6 | 23.8 | 26.4 | 0.3 | 1.8 | 28.7 | 31.9 | 1280 |
| 20×2×0.75 | 0.8 | 1.9 | 30.4 | 33.5 | 0.45 | 2.1 | 36.5 | 40.5 | 2050 |
| 27×2×0.75 | 0.8 | 2.0 | 34.6 | 37.9 | 0.45 | 2.3 | 41.2 | 45.7 | 2580 |
| 37×2×0.75 | 0.8 | 2.2 | 40.5 | 44.3 | 0.45 | 2.5 | 47.4 | 52.2 | 3290 |
| 1×2×1 | 0.8 | 1.0 | 8.5 | 10.3 | 0.3 | 1.2 | 12.3 | 14.2 | 280 |
| 3×2×1 | 0.8 | 1.3 | 15.0 | 17.0 | 0.3 | 1.4 | 19.1 | 21.5 | 540 |
| 7×2×1 | 0.8 | 1.4 | 20.0 | 22.5 | 0.3 | 1.6 | 24.5 | 27.6 | 900 |
| 12×2×1 | 0.8 | 1.7 | 25.4 | 28.0 | 0.45 | 1.9 | 31.2 | 34.9 | 1520 |
| 20×2×1 | 0.8 | 1.9 | 32.1 | 35.3 | 0.45 | 2.2 | 38.5 | 42.9 | 2250 |
| 27×2×1 | 0.8 | 2.1 | 36.8 | 40.2 | 0.45 | 2.4 | 43.6 | 48.2 | 2860 |
| 37×2×1 | 0.8 | 2.3 | 43.0 | 47.0 | 0.45 | 2.6 | 50.2 | 55.5 | 3670 |
| Multitrip | | | | | | | | | |
| 1×3×0.75 | 0.8 | 1.0 | 8.1 | 9.8 | 0.3 | 1.2 | 11.9 | 13.7 | 280 |
| 3×3×0.75 | 0.8 | 1.3 | 15.0 | 17.0 | 0.3 | 1.5 | 19.3 | 22.1 | 580 |
| 7×3×0.75 | 0.8 | 1.5 | 20.8 | 23.3 | 0.3 | 1.7 | 25.5 | 28.6 | 960 |
| 12×3×0.75 | 0.8 | 1.7 | 25.8 | 28.5 | 0.45 | 2.0 | 31.8 | 35.6 | 1590 |
| 1×3×1 | 0.8 | 1.1 | 8.7 | 10.5 | 0.3 | 1.2 | 12.5 | 14.4 | 300 |
| 3×3×1 | 0.8 | 1.3 | 15.8 | 17.9 | 0.3 | 1.5 | 20.1 | 23.0 | 620 |
| 7×3×1 | 0.8 | 1.5 | 22.0 | 24.5 | 0.3 | 1.7 | 26.7 | 29.8 | 1050 |
| 12×3×1 | 0.8 | 1.8 | 27.5 | 30.2 | 0.45 | 2.0 | 33.5 | 37.3 | 1760 |
| Multiquad | | | | | | | | | |
| 1×4×0.75 | 0.8 | 1.1 | 9.1 | 10.9 | 0.3 | 1.2 | 12.8 | 14.8 | 330 |
| 3×4×0.75 | 0.8 | 1.4 | 17.4 | 19.5 | 0.3 | 1.5 | 21.9 | 24.8 | 720 |
| 7×4×0.75 | 0.8 | 1.6 | 23.5 | 26.1 | 0.3 | 1.7 | 28.4 | 31.6 | 1240 |
| 1×4×1 | 0.8 | 1.1 | 9.6 | 11.4 | 0.3 | 1.2 | 13.3 | 15.3 | 350 |
| 3×4×1 | 0.8 | 1.4 | 18.4 | 20.6 | 0.3 | 1.6 | 22.9 | 25.9 | 780 |
| 7×4×1 | 0.8 | 1.6 | 24.9 | 27.6 | 0.45 | 1.8 | 30.8 | 34.0 | 1470 |

