



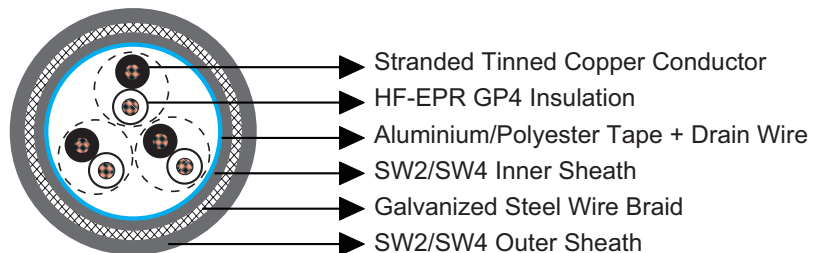
## 150/250V HF-EPR Insulated, SW2/SW4 Sheathed, Collectively Screened Armoured Flame Retardant Instrumentation & Control Cables

### Application

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

### 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)



### Construction

- Conductor: Tinned copper wire stranded circular cl. 2 BS 6360/IEC 60228.
- Insulation: HF-EPR GP4 according to BS 7655 1.2.
- Lay-up: Pairs, triples.
- Collective Screen: Aluminium/polyester tape + drain wire tinned copper.
- 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. 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.



## Flame Retardant Instrumentation & Control Cables

[www.caledonian-cables.co.uk](http://www.caledonian-cables.co.uk)

### Mechanical and Thermal Properties

Minimum Internal Bending Radius:  $8 \times OD$

Temperature Range:  $-40^{\circ}\text{C} \sim +90^{\circ}\text{C}$

### Dimensions and Weight

Construction No. of cores $\times$ Cross section ( $\text{mm}^2$ )	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									
3 $\times$ 2 $\times$ 0.75	0.8	1.2	12.6	14.5	0.3	1.4	16.7	19.0	390
7 $\times$ 2 $\times$ 0.75	0.8	1.4	16.6	18.7	0.3	1.5	20.9	23.8	620
12 $\times$ 2 $\times$ 0.75	0.8	1.6	21.7	24.2	0.3	1.7	26.4	29.5	930
20 $\times$ 2 $\times$ 0.75	0.8	1.8	27.3	30.1	0.45	2.0	33.3	37.1	1460
27 $\times$ 2 $\times$ 0.75	0.8	1.9	31.1	34.2	0.45	2.2	37.4	41.4	1810
37 $\times$ 2 $\times$ 0.75	0.8	2.1	34.4	37.7	0.45	2.3	41.0	45.5	2270
3 $\times$ 2 $\times$ 1	0.8	1.2	13.3	15.3	0.3	1.4	17.4	19.8	410
7 $\times$ 2 $\times$ 1	0.8	1.4	17.6	19.8	0.3	1.6	22.1	25.1	680
12 $\times$ 2 $\times$ 1	0.8	1.6	23.1	25.7	0.3	1.8	28.0	31.2	1010
20 $\times$ 2 $\times$ 1	0.8	1.8	29.0	31.9	0.45	2.1	35.3	39.2	1600
27 $\times$ 2 $\times$ 1	0.8	2.0	33.3	36.6	0.45	2.2	39.7	44.2	2000
37 $\times$ 2 $\times$ 1	0.8	2.2	36.9	40.3	0.45	2.4	43.7	48.3	2540
Multitriples									
3 $\times$ 3 $\times$ 0.75	0.8	1.3	14.2	16.2	0.3	1.4	18.3	20.7	480
7 $\times$ 3 $\times$ 0.75	0.8	1.4	19.4	21.9	0.3	1.6	24.0	27.0	780
12 $\times$ 3 $\times$ 0.75	0.8	1.7	24.2	26.8	0.45	1.9	29.3	32.9	1320
3 $\times$ 3 $\times$ 1	0.8	1.3	15.1	17.1	0.3	1.5	19.4	22.2	530
7 $\times$ 3 $\times$ 1	0.8	1.5	20.9	23.4	0.3	1.7	25.6	28.7	890
12 $\times$ 3 $\times$ 1	0.8	1.7	25.8	28.5	0.45	2.0	31.8	35.5	1480

