



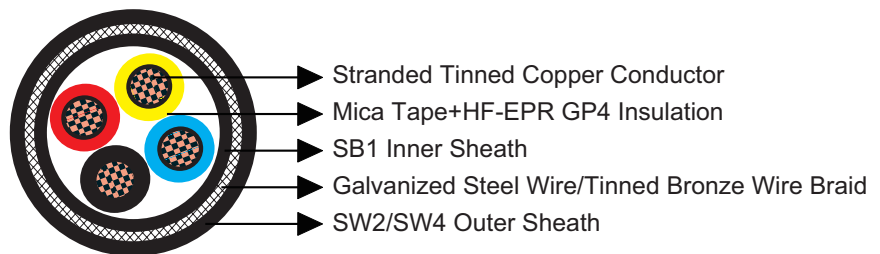
## 0.6/1kV HF-EPR Insulated, SW2/SW4 Sheathed Armoured Fire Resistant Power & Control Cables

### Application

These fire resistant elastomeric insulated cables are designed for fixed wiring in ships and on mobile offshore units, suitable for use in power and control applications 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.
- Inner Sheath: Halogen free thermosetting compound SB1 according to BS 7917.
- Armour: Galvanized steel wire braid or tinned bronze wire braid (single core). Copper 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.

### Mechanical and Thermal Properties

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



### Dimensions and Weight

#### Single core cables

Construction No. of cores×Cross section(mm <sup>2</sup> )	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
1×4	1.0	1.0	6.7	8.0	0.3	1.1	10.2	12.1	245
1×6	1.0	1.0	7.2	8.5	0.3	1.1	10.8	12.6	275
1×10	1.0	1.0	8.1	9.5	0.3	1.2	11.9	13.8	355
1×16	1.0	1.1	9.3	10.7	0.3	1.2	13.1	15.0	440
1×25	1.2	1.2	11.5	13.2	0.3	1.3	15.4	17.7	600
1×35	1.2	1.2	12.3	14.1	0.3	1.4	16.5	18.8	720
1×50	1.4	1.3	14.1	15.9	0.3	1.4	18.2	20.6	910
1×70	1.4	1.3	15.8	17.8	0.3	1.5	20.2	23.0	1170
1×95	1.6	1.4	18.1	20.2	0.3	1.6	22.6	25.6	1510
1×120	1.6	1.5	20.0	22.4	0.3	1.7	24.7	27.7	1830
1×150	1.8	1.6	22.0	24.6	0.3	1.8	26.9	30.1	2160
1×185	2.0	1.7	24.4	27.0	0.45	1.9	30.2	33.9	2790
1×240	2.2	1.8	27.5	30.3	0.45	2.0	33.5	37.3	3530
1×300	2.4	1.9	30.4	33.6	0.45	2.1	36.6	40.5	4280

#### Multicore cables

Construction No. of cores×Cross section(mm <sup>2</sup> )	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
2×1.5	0.8	1.1	9.0	10.4	0.3	1.2	12.7	14.7	310
2×2.5	0.8	1.1	9.8	11.4	0.3	1.2	13.6	15.5	355
2×4	1.0	1.2	11.8	13.5	0.3	1.3	15.7	18.0	475
2×6	1.0	1.2	12.9	14.6	0.3	1.4	17.0	19.3	580
2×10	1.0	1.3	14.9	16.8	0.3	1.4	19.0	21.4	750
2×16	1.0	1.4	17.1	19.1	0.3	1.5	21.4	24.3	980
2×25	1.2	1.5	21.2	23.7	0.3	1.7	25.9	29.0	1380
2×35	1.2	1.6	23.1	25.7	0.3	1.8	28.0	31.2	1710
2×50	1.4	1.7	26.5	29.2	0.45	2.0	32.5	36.3	2370
2×70	1.4	1.9	30.3	33.5	0.45	2.1	36.5	40.5	3100
2×95	1.6	2.1	34.9	38.2	0.45	2.3	41.4	46.0	4020
2×120	1.6	2.2	38.4	42.2	0.45	2.5	45.4	50.1	4870
3×1.5	0.8	1.1	9.6	11.0	0.3	1.2	13.3	15.3	345
3×2.5	0.8	1.1	10.4	12.1	0.3	1.3	14.4	16.4	405
3×4	1.0	1.2	12.6	14.3	0.3	1.3	16.5	18.8	540
3×6	1.0	1.2	13.8	15.5	0.3	1.4	17.9	20.2	660
3×10	1.0	1.3	15.9	17.8	0.3	1.5	20.2	23.0	910
3×16	1.0	1.4	18.2	20.3	0.3	1.6	22.8	25.7	1200



## LV Fire Resistant Power & Control Cables

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

Construction No. of cores×Cross section(mm <sup>2</sup> )	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
3×25	1.2	1.6	22.9	25.4	0.3	1.8	27.8	30.9	1760
3×35	1.2	1.7	24.9	27.6	0.45	1.9	30.7	34.4	2260
3×50	1.4	1.8	28.5	31.3	0.45	2.0	34.5	38.4	2880
3×70	1.4	2.0	32.7	35.9	0.45	2.2	39.0	43.5	3800
3×95	1.6	2.2	37.5	41.0	0.45	2.4	44.3	48.9	4890
3×120	1.6	2.3	41.3	45.3	0.45	2.6	48.5	53.7	6070
3×150	1.8	2.5	45.8	49.9	0.45	2.8	53.3	58.7	7270
3×185	2.0	2.7	50.9	55.5	0.45	3.0	58.8	64.9	8970
3×240	2.2	2.9	57.5	62.4	0.45	3.2	65.8	72.2	1350
4×1.5	0.8	1.1	10.5	12.1	0.3	1.3	14.4	16.4	395
4×2.5	0.8	1.1	11.4	13.1	0.3	1.3	15.4	17.6	465
4×4	1.0	1.2	13.8	15.6	0.3	1.4	17.9	20.3	640
4×6	1.0	1.3	15.3	17.3	0.3	1.5	19.6	22.5	790
4×10	1.0	1.4	17.7	19.7	0.3	1.6	22.2	25.1	1070
4×16	1.0	1.5	20.3	22.8	0.3	1.7	25.0	28.1	1460
4×25	1.2	1.7	25.5	28.1	0.45	1.9	31.3	35.0	2140
4×35	1.2	1.8	27.7	30.5	0.45	2.0	33.7	37.5	2670
4×50	1.4	1.9	31.8	35.0	0.45	2.2	38.1	42.1	3630
4×70	1.4	2.1	36.3	39.7	0.45	2.4	43.1	47.7	4740
4×95	1.6	2.3	41.7	45.7	0.45	2.6	48.9	54.1	6290
4×120	1.6	2.5	46.2	50.3	0.45	2.8	53.7	59.2	7670
5×1.5	0.8	1.1	11.4	13.1	0.3	1.3	15.4	17.6	455
7×1.5	0.8	1.2	12.6	14.4	0.3	1.3	16.6	18.9	530
12×1.5	0.8	1.3	16.8	18.8	0.3	1.5	21.2	24.0	790
19×1.5	0.8	1.4	19.9	22.4	0.3	1.6	24.4	27.5	1080
27×1.5	0.8	1.6	24.3	26.9	0.3	1.8	29.2	32.8	1460
37×1.5	0.8	1.7	27.4	30.4	0.45	1.9	33.2	37.0	1990
5×2.5	0.8	1.2	12.7	14.4	0.3	1.3	16.6	18.9	560
7×2.5	0.8	1.2	13.9	15.6	0.3	1.4	18.0	20.3	650
12×2.5	0.8	1.4	18.7	20.8	0.3	1.6	23.2	26.2	970
19×2.5	0.8	1.5	22.1	24.7	0.3	1.7	26.8	30.0	1360

