



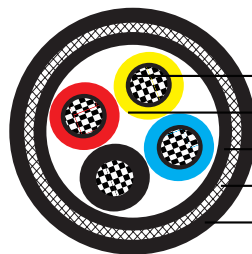
## 0.6/1kV HF-EPR Insulated, SW2/SW4 Sheathed Armoured Flame Retardant Power & Control Cables

### Application

These 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 GP4 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 GP4 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). 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:  $6 \times OD$  ( $OD > 25\text{mm}$ );  $4 \times OD$  ( $OD \leq 25\text{mm}$ )  
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	6.3	7.6	0.3	1.1	9.8	11.7	220
1×6	1.0	1.0	6.8	8.1	0.3	1.1	10.4	12.2	250
1×10	1.0	1.0	7.7	9.1	0.3	1.2	11.5	13.4	310
1×16	1.0	1.1	8.9	10.3	0.3	1.2	12.7	14.6	400
1×25	1.2	1.2	11.1	12.8	0.3	1.3	15.0	17.3	570
1×35	1.2	1.2	12.0	13.7	0.3	1.4	16.1	18.4	660
1×50	1.4	1.3	13.7	15.5	0.3	1.4	17.9	20.2	870
1×70	1.4	1.3	15.5	17.4	0.3	1.5	19.8	22.6	1110
1×95	1.6	1.4	17.7	19.8	0.3	1.6	22.2	25.2	1460
1×120	1.6	1.5	19.6	22.0	0.3	1.7	24.3	27.3	1770
1×150	1.8	1.6	21.6	24.2	0.3	1.8	26.5	29.7	2110
1×185	2.0	1.7	24.0	26.6	0.45	1.9	29.8	33.5	2720
1×240	2.2	1.8	27.1	29.9	0.45	2.0	33.1	36.9	3410
1×300	2.4	1.9	30.0	33.2	0.45	2.1	36.2	40.1	4180

### 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	0.8	1.0	7.5	8.8	0.3	1.2	11.3	13.1	230
2×1.5	0.8	1.1	8.2	9.6	0.3	1.2	12.0	13.9	270
2×2.5	0.8	1.1	9.0	10.4	0.3	1.2	12.8	14.7	320
2×4	1.0	1.2	11.0	12.7	0.3	1.3	15.0	17.2	430
2×6	1.0	1.2	12.1	13.8	0.3	1.4	16.3	18.5	530
2×10	1.0	1.3	14.1	15.9	0.3	1.4	18.2	20.6	660
2×16	1.0	1.4	16.3	18.3	0.3	1.5	20.6	23.5	840
2×25	1.2	1.5	20.4	22.9	0.3	1.7	25.2	28.2	1310
2×35	1.2	1.6	22.4	24.9	0.3	1.8	27.3	30.4	1600
2×50	1.4	1.7	25.7	28.4	0.45	2.0	31.7	35.5	2240
2×70	1.4	1.9	29.6	32.7	0.45	2.1	35.8	39.7	2900
2×95	1.6	2.1	34.1	37.4	0.45	2.3	40.7	45.2	3860
2×120	1.6	2.2	37.7	41.1	0.45	2.5	44.6	49.3	4650
3×1	0.8	1.1	8.2	9.5	0.3	1.2	11.9	13.8	250
3×1.5	0.8	1.1	8.7	10.1	0.3	1.2	12.5	14.4	305
3×2.5	0.8	1.1	9.6	11.0	0.3	1.3	13.5	15.5	360
3×4	1.0	1.2	11.7	13.4	0.3	1.3	15.7	17.9	495
3×6	1.0	1.2	12.9	14.7	0.3	1.4	17.0	19.4	600



# Caledonian

Any inquiries, please feel free to contact  
[enquiry@shipboard-cables.com](mailto:enquiry@shipboard-cables.com) or [sales@shipboard-cables.com](mailto:sales@shipboard-cables.com)



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
3×10	1.0	1.3	15.0	17.0	0.3	1.5	19.4	22.2	810
3×16	1.0	1.4	17.4	19.4	0.3	1.6	21.9	24.8	1070
3×25	1.2	1.6	22.0	24.6	0.3	1.8	26.9	30.1	1620
3×35	1.2	1.7	24.1	26.7	0.45	1.9	29.9	33.6	2130
3×50	1.4	1.8	27.7	30.5	0.45	2.0	33.7	37.5	2750
3×70	1.4	2.0	31.8	35.1	0.45	2.2	38.2	42.2	3660
3×95	1.6	2.2	36.7	40.1	0.45	2.4	43.5	48.1	4740
3×120	1.6	2.3	40.5	44.4	0.45	2.6	47.7	52.5	5950
3×150	1.8	2.5	44.9	49.0	0.45	2.8	52.5	57.8	7120
3×185	2.0	2.7	50.1	54.6	0.45	3.0	58.0	64.0	8820
3×240	2.2	2.9	56.7	61.5	0.45	3.2	65.0	71.3	11280
3×300	2.4	3.2	63.1	68.6	0.45	3.5	72.0	79.0	13640
4×1	0.8	1.1	8.9	10.3	0.3	1.2	12.6	14.6	280
4×1.5	0.8	1.1	9.5	10.9	0.3	1.3	13.5	15.4	350
4×2.5	0.8	1.1	10.5	12.1	0.3	1.3	14.4	16.4	410
4×4	1.0	1.2	12.9	14.6	0.3	1.4	17.0	19.3	570
4×6	1.0	1.3	14.4	16.2	0.3	1.5	18.7	21.1	730
4×10	1.0	1.4	16.7	18.7	0.3	1.6	21.3	24.1	990
4×16	1.0	1.5	19.4	21.8	0.3	1.7	24.1	27.1	1330
4×25	1.2	1.7	24.5	27.1	0.45	1.9	30.3	34.0	2150
4×35	1.2	1.8	26.8	29.5	0.45	2.0	32.8	36.6	2600
4×50	1.4	1.9	30.8	34.0	0.45	2.2	37.2	41.2	3410
4×70	1.4	2.1	35.4	38.8	0.45	2.4	42.2	46.7	4530
4×95	1.6	2.3	40.8	44.7	0.45	2.6	47.9	52.7	5940
4×120	1.6	2.5	45.2	49.3	0.45	2.8	52.8	58.2	7390
4×150	1.8	2.7	50.1	54.7	0.45	3.0	58.1	64.1	8700
4×185	2.0	2.9	55.8	60.7	0.45	3.2	64.1	70.4	10780
4×240	2.2	3.2	63.4	68.9	0.45	3.5	72.3	79.3	13840
5×1.5	0.8	1.1	10.4	12.0	0.3	1.3	14.3	16.3	395
7×1.5	0.8	1.2	11.5	13.2	0.3	1.3	15.4	17.7	460
12×1.5	0.8	1.3	15.2	17.2	0.3	1.5	19.6	22.4	680
19×1.5	0.8	1.4	18.0	20.1	0.3	1.6	22.5	25.5	930
27×1.5	0.8	1.6	21.9	24.5	0.3	1.8	26.8	30.0	1270
37×1.5	0.8	1.7	24.7	27.3	0.3	1.9	30.5	34.2	1740
5×2.5	0.8	1.2	11.7	13.3	0.3	1.3	15.6	17.8	480
7×2.5	0.8	1.2	12.7	14.4	0.3	1.4	16.8	19.1	570
12×2.5	0.8	1.4	17.1	19.1	0.3	1.6	21.6	24.5	880
19×2.5	0.8	1.5	20.2	22.7	0.3	1.7	24.9	28.0	1220