

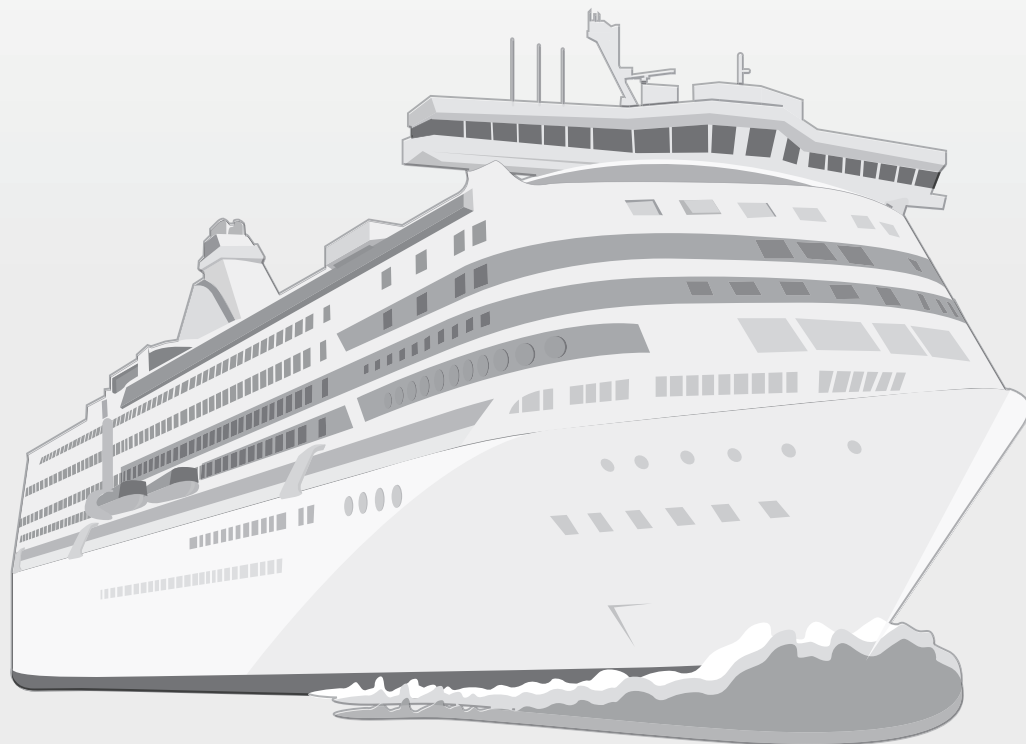


**Caledonian**

## **Caledonian Offshore & Marine Cables**



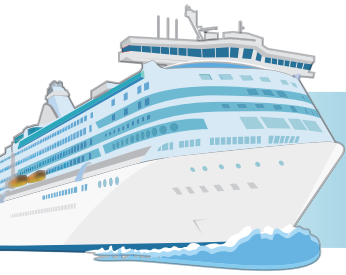
**BS 6883 STANDARD  
(Flame Retardant)  
BS 7917 STANDARD  
(Fire Resistant)**



 **ADDISON**

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[www.addison-cables.com](http://www.addison-cables.com)



# Company Profile

Caledonian, established in 1978, offers one of the most complete lines of fiber and copper cabling system solutions with over hundreds of different cabling system products. Our superior products provide leading edge within every cable series and for every application.

Among the national and international standards with which our cables could comply are: BS - British Standard; LPCB Fire Performance Standard, ISO Standard etc. Caledonian Cables offers a comprehensive stock of cables and cabling products through its nationwide network of resellers and distributors. Caledonian Cables has continually expanded its global presence in Europe and Asia.

Caledonian & Addison, produces a wide range of cables for communication, power and electronics in its primary plants in UK, Italy and Spain. To stay in front, we continually keep expanding our manufacturing capabilities in more low cost region such as Romania, Taiwan, Malaysia etc. This low-cost manufacturing facilities enable us provide a flexible, scalable global system that delivers superior operational performance and optimal results for our customers.

Our extensive global network of manufacturing facilities gives us significant scale and the flexibility to fulfill our customer requirements. This global presence provides design and consultancy solutions that are combined with core cable manufacturing, logistic services, and vertically integrated with our E commerce technologies, to optimize customer operations by lowering costs and reducing time to market.

Caledonian & Addison has been respected for its high standards of quality, excellent service level, competitive pricing and a unique and innovative spirit. With our latest technologies, we are both inspired and well-positioned to meet the changing needs of our customers. We have the resources to diversify and to enhance our product lines and services. We understand the need for change and with our accurate planning, we are ready for the future and the promise of new marketing opportunities. Our tradition of growth through excellence is assured.

Our Design Centers work closely with customers to constantly improve its standard range of products and technologies and to develop customized, country and industry-specific solutions. Caledonian & Addison has established an extensive network of design, manufacturing, and logistics facilities in the world's major markets to serve the growing outsourcing needs of both multinational and regional customers.



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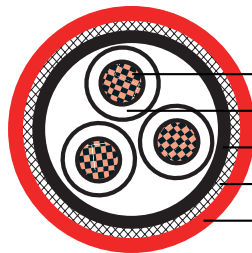
### 1.9/3.3kV, 3.3/3.3kV HF-EPR Insulated, SW2/SW4 Sheathed Armoured Flame Retardant Power & Control Cables

#### 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 <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
1×10	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 <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
1×10	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 <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
1×70	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





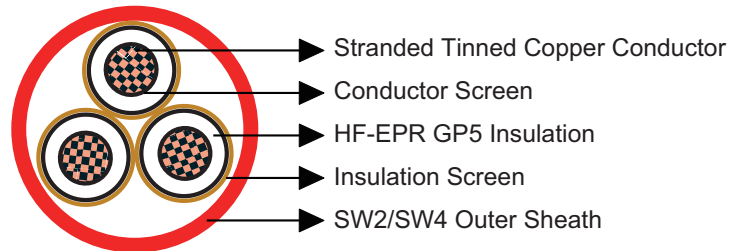
### 3.8/6.6kV, 6.35/11kV, 8.7/15kV HF-EPR Insulated, SW2/SW4 Sheathed Unarmoured Flame Retardant Power & Control Cables (Radial Field)

#### 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)



#### Construction

- Conductor: Tinned copper wire stranded circular cl. 2 BS 6360/IEC 60228.
- Conductor Screen: Semiconducting layer or tape.
- Insulation: HF-EPR GP5 according to BS 7655 1.2.
- Insulation Screen: Semiconducting layer or tape +Tinned copper tape.
- 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:  $15 \times OD$  (single core);  $20 \times OD$  (three core)  
Temperature Range: -40°C ~ +90°C





## MV Flame Retardant Power & Control Cables

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

### Dimensions and Weight

#### 3.8/6.6kV

Construction No. of cores×Cross section(mm <sup>2</sup> )	Nominal Insulation Thickness mm	Nominal Outer Sheath Thickness mm	Minimum Overall Diameter mm	Maximum Overall Diameter mm	Approx. Weight kg/km
1×16	3.0	1.3	16.0	18.0	492
1×25	3.0	1.3	17.6	19.7	658
1×35	3.0	1.4	18.7	20.8	776
1×50	3.0	1.4	19.9	22.3	942
1×70	3.0	1.5	21.8	24.3	1229
1×95	3.0	1.6	23.7	26.3	1546
1×120	3.0	1.6	25.4	28.0	1890
1×150	3.0	1.7	27.0	29.8	2242
1×185	3.0	1.8	29.0	32.1	2713
1×240	3.0	1.9	31.7	35.0	3427
1×300	3.0	2.0	34.3	37.6	4177
1×400	3.0	2.1	37.6	41.1	5145
1×500	3.2	2.3	41.4	45.5	6408
1×630	3.2	2.4	45.1	49.2	8134
3×16	3.0	1.8	32.7	36.0	1482
3×25	3.0	2.0	36.5	39.9	2031
3×35	3.0	2.0	38.4	41.9	2359
3×50	3.0	2.2	41.3	45.3	2918
3×70	3.0	2.3	45.3	49.4	3788
3×95	3.0	2.5	49.3	53.9	4776
3×120	3.0	2.6	53.1	57.8	5868
3×150	3.0	2.7	56.5	61.4	6933
3×185	3.0	2.9	60.8	66.1	8401
3×240	3.0	3.1	66.6	72.2	10616

#### 6.35/11kV

Construction No. of cores×Cross section(mm <sup>2</sup> )	Nominal Insulation Thickness mm	Nominal Outer Sheath Thickness mm	Minimum Overall Diameter mm	Maximum Overall Diameter mm	Approx. Weight kg/km
1×16	3.4	1.3	16.8	18.8	524
1×25	3.4	1.4	18.6	20.7	704
1×35	3.4	1.4	19.4	21.9	813
1×50	3.4	1.5	20.8	23.3	994
1×70	3.4	1.5	22.6	25.1	1272
1×95	3.4	1.6	24.4	27.1	1592
1×120	3.4	1.7	26.3	29.0	1956
1×150	3.4	1.7	27.8	30.6	2294
1×185	3.4	1.8	29.8	32.9	2769
1×240	3.4	1.9	32.5	35.8	3487



Construction No. of cores×Cross section(mm <sup>2</sup> )	Nominal Insulation Thickness mm	Nominal Outer Sheath Thickness mm	Minimum Overall Diameter mm	Maximum Overall Diameter mm	Approx. Weight kg/km
1×300	3.4	2.0	35.0	38.4	4242
1×400	3.4	2.1	38.4	41.9	5208
1×500	3.4	2.3	41.8	45.8	6442
1×630	3.4	2.4	45.5	49.6	8176
3×16	3.4	1.9	34.5	37.9	1601
3×25	3.4	2.0	38.2	41.6	2139
3×35	3.4	2.1	40.2	44.1	2497
3×50	3.4	2.2	43.0	47.0	3040
3×70	3.4	2.4	47.1	51.3	3949
3×95	3.4	2.5	51.0	55.6	4919
3×120	3.4	2.7	55.0	59.8	6055
3×150	3.4	2.8	58.4	63.3	7132
3×185	3.4	3.0	62.7	68.1	8613
3×240	3.4	3.2	68.5	74.1	10848

### 8.7/15kV

Construction No. of cores×Cross section(mm <sup>2</sup> )	Nominal Insulation Thickness mm	Nominal Outer Sheath Thickness mm	Minimum Overall Diameter mm	Maximum Overall Diameter Mm	Approx. Weight kg/km
1×25	4.5	1.5	20.9	23.4	808
1×35	4.5	1.5	21.7	24.3	921
1×50	4.5	1.5	22.9	25.5	1110
1×70	4.5	1.6	24.9	27.5	1396
1×95	4.5	1.7	26.7	29.5	1726
1×120	4.5	1.8	28.6	31.4	2099
1×150	4.5	1.8	30.1	33.3	2445
1×185	4.5	1.9	32.1	35.3	2929
1×240	4.5	2.0	34.8	38.2	3661
1×300	4.5	2.1	37.3	40.8	4429
1×400	4.5	2.2	40.7	44.6	5390
1×500	4.5	2.4	44.1	48.2	6638
1×630	4.5	2.5	47.8	52.0	8415
3×25	4.5	2.2	43.1	47.1	2458
3×35	4.5	2.3	45.2	49.2	2832
3×50	4.5	2.4	47.9	52.1	3395
3×70	4.5	2.6	52.1	56.7	4336
3×95	4.5	2.7	55.9	60.7	5334
3×120	4.5	2.9	59.9	64.9	6500
3×150	4.5	3.0	63.3	68.7	7602
3×185	4.5	3.2	67.6	73.2	9116



## MV Flame Retardant Power & Control Cables

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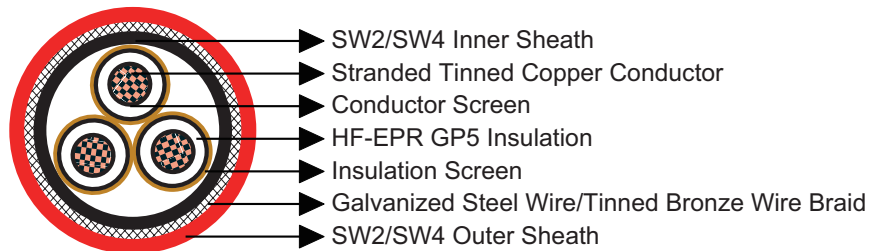
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#### Application

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)



#### Construction

- Conductor: Tinned copper wire stranded circular cl. 2 BS 6360/IEC 60228.
- Conductor Screen: Semiconducting layer or tape.
- Insulation: HF-EPR GP5 according to BS 7655 1.2.
- Insulation Screen: Semiconducting layer or tape +Tinned copper tape.
- 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: 15×OD (single core); 20×OD (three core)  
Temperature Range: -40°C ~ +90°C



### Dimensions and Weight

#### 3.8/6.6kV

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
1×16	3.0	1.3	16.0	18.0	0.3	1.4	20.2	23.0	790
1×25	3.0	1.3	17.6	19.7	0.3	1.5	21.9	24.9	950
1×35	3.0	1.4	18.7	20.8	0.3	1.5	23.0	26.0	1060
1×50	3.0	1.4	19.9	22.3	0.3	1.6	24.4	27.4	1320
1×70	3.0	1.5	21.8	24.3	0.3	1.7	26.5	29.6	1610
1×95	3.0	1.6	23.7	26.3	0.3	1.8	28.6	31.8	1930
1×120	3.0	1.6	25.4	28.0	0.3	1.8	30.2	33.9	2260
1×150	3.0	1.7	27.0	29.8	0.45	1.9	32.8	36.6	2760
1×185	3.0	1.8	29.0	32.1	0.45	2.0	35.0	38.9	3210
1×240	3.0	1.9	31.7	35.0	0.45	2.1	37.9	41.9	3960
1×300	3.0	2.0	34.3	37.6	0.45	2.2	40.6	45.1	4660
1×400	3.0	2.1	37.6	41.4	0.45	2.4	44.4	49.0	5470
1×500	3.2	2.3	41.4	45.4	0.45	2.5	48.4	53.6	6610
1×630	3.2	2.4	45.1	49.2	0.45	2.7	52.4	57.8	8230
3×16	3.0	1.8	32.7	36.0	0.45	2.1	38.9	43.3	2610
3×25	3.0	2.0	36.5	39.9	0.45	2.2	42.9	47.5	3220
3×35	3.0	2.0	38.4	41.9	0.45	2.3	44.9	49.6	3700
3×50	3.0	2.2	41.3	45.3	0.45	2.4	48.1	53.3	4360
3×70	3.0	2.3	45.3	49.4	0.45	2.6	52.4	57.4	5410
3×95	3.0	2.5	49.3	53.9	0.45	2.8	56.8	62.4	6710
3×120	3.0	2.6	53.1	57.8	0.45	2.9	60.8	67.0	7770
3×150	3.0	2.7	56.6	61.4	0.45	3.1	64.6	70.9	9160
3×185	3.0	2.9	60.8	66.1	0.45	3.2	69.1	76.0	10430
3×240	3.0	3.1	66.6	72.2	0.45	3.5	75.5	82.6	12840

#### 6.35/11kV

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
1×16	3.4	1.3	16.8	18.8	0.3	1.5	21.1	24	810
1×25	3.4	1.4	18.6	20.7	0.3	1.5	22.9	25.9	980
1×35	3.4	1.4	19.4	21.9	0.3	1.6	24.0	27.0	1110
1×50	3.4	1.5	20.8	23.3	0.3	1.6	25.3	28.4	1360
1×70	3.4	1.5	22.6	25.1	0.3	1.7	27.3	30.4	1660
1×95	3.4	1.6	24.4	27.1	0.3	1.8	29.3	33.0	1970
1×120	3.4	1.7	26.3	29.0	0.45	1.9	32.1	35.9	2360
1×150	3.4	1.7	27.8	30.6	0.45	2.0	33.8	37.6	2810



## MV Flame Retardant 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
1×185	3.4	1.8	29.8	32.9	0.45	2.0	35.8	39.7	3260
1×240	3.4	1.9	32.5	35.8	0.45	2.2	38.9	43.3	4020
1×300	3.4	2.0	35.0	38.4	0.45	2.3	41.6	46.1	4760
1×400	3.4	2.1	38.4	41.9	0.45	2.4	45.1	49.8	5610
1×500	3.4	2.3	41.8	45.8	0.45	2.5	48.8	54.0	6820
1×630	3.4	2.4	45.5	49.6	0.45	2.7	52.8	58.2	8480
3×16	3.4	1.9	34.5	37.9	0.45	2.1	40.7	45.2	2660
3×25	3.4	2.0	38.2	41.6	0.45	2.3	44.7	49.4	3310
3×35	3.4	2.1	40.2	44.1	0.45	2.4	47.0	51.7	3960
3×50	3.4	2.2	43.0	47.0	0.45	2.5	50.0	55.2	4570
3×70	3.4	2.4	47.1	51.3	0.45	2.7	54.4	59.9	5610
3×95	3.4	2.5	51.0	55.6	0.45	2.8	58.5	64.5	6820
3×120	3.4	2.7	55.0	59.8	0.45	3.0	62.9	69.1	8070
3×150	3.4	2.8	58.4	63.3	0.45	3.1	66.5	72.8	9260
3×185	3.4	3.0	62.7	68.1	0.45	3.3	71.2	78.1	10960
3×240	3.4	3.2	68.5	74.1	0.45	3.6	77.5	85.2	13390

### 8.7/15kV

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
1×25	4.5	1.5	20.9	23.4	0.3	1.6	25.4	28.5	1150
1×35	4.5	1.5	21.7	24.3	0.3	1.7	26.4	29.6	1260
1×50	4.5	1.5	22.9	25.5	0.3	1.7	27.6	30.8	1510
1×70	4.5	1.6	24.9	27.5	0.3	1.8	29.8	33.4	1770
1×95	4.5	1.7	26.7	29.5	0.45	1.9	32.6	36.3	2270
1×120	4.5	1.8	28.6	31.4	0.45	2.0	34.6	38.5	2730
1×150	4.5	1.8	30.1	33.3	0.45	2.1	36.3	40.2	3020
1×185	4.5	1.9	32.1	35.3	0.45	2.1	38.3	42.3	3490
1×240	4.5	2.0	34.8	38.2	0.45	2.2	41.2	45.7	4260
1×300	4.5	2.1	37.3	40.8	0.45	2.4	44.1	48.7	4810
1×400	4.5	2.2	40.7	44.6	0.45	2.5	47.6	52.4	6160
1×500	4.5	2.4	44.1	48.2	0.45	2.6	51.3	56.6	7330
1×630	4.5	2.5	47.8	52.0	0.45	2.8	55.3	60.8	8800
3×25	4.5	2.2	43.1	47.1	0.45	2.5	50.1	55.4	3610
3×35	4.5	2.3	45.2	49.2	0.45	2.6	52.3	57.7	4510
3×50	4.5	2.4	47.9	52.1	0.45	2.7	55.3	60.8	5210
3×70	4.5	2.6	52.1	56.7	0.45	2.9	59.8	65.9	6390
3×95	4.5	2.7	55.9	60.7	0.45	3.0	63.8	70.1	7660
3×120	4.5	2.9	59.9	64.9	0.45	3.2	68.2	75.1	8810
3×150	4.5	3.0	63.3	68.7	0.45	3.3	71.8	78.8	10070
3×185	4.5	3.2	67.6	73.2	0.45	3.5	76.5	83.7	11420





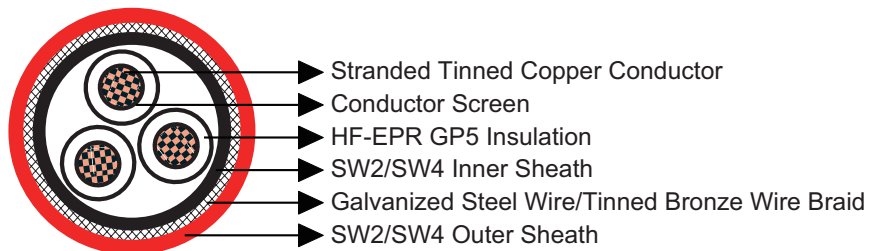
### 3.8/6.6kV, 6.6/6.6kV, 6.35/11kV HF-EPR Insulated, SW2/SW4 Sheathed Armoured Flame Retardant Power & Control Cables (Non Radial Field)

#### 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)



#### Construction

- Conductor: Tinned copper wire stranded circular cl. 2 BS 6360/IEC 60228.
- Conductor Screen: Semiconducting layer or tape.
- 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:  $12 \times OD$   
Temperature Range: -40°C ~ +90°C



## MV Flame Retardant Power & Control Cables

www.caledonian-cables.co.uk

### Dimensions and Weight

#### 3.8/6.6kV

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
1×16	3.4	1.3	13.9	15.7	0.3	1.4	18.0	20.4	703
1×25	3.4	1.3	15.5	17.5	0.3	1.5	19.8	22.7	899
1×35	3.4	1.4	16.6	18.6	0.3	1.5	20.9	23.8	1029
1×50	3.4	1.4	17.8	19.8	0.3	1.6	22.3	25.2	1223
1×70	3.4	1.5	19.7	22.1	0.3	1.7	24.4	27.4	1547
1×95	3.4	1.6	21.6	24.1	0.3	1.8	26.5	29.6	1903
1×120	3.4	1.6	23.2	25.8	0.3	1.8	28.1	31.3	2266
1×150	3.4	1.7	24.9	27.6	0.45	1.9	30.7	34.4	2760
1×185	3.4	1.8	26.9	29.6	0.45	2.0	32.9	36.7	3282
1×240	3.4	1.9	29.6	32.8	0.45	2.1	35.8	39.7	4059
1×300	3.4	2.0	32.1	35.4	0.45	2.2	38.5	42.9	4872
1×400	3.4	2.1	35.5	38.9	0.45	2.4	42.2	46.8	5844
1×500	3.4	2.2	38.7	42.6	0.45	2.5	45.7	50.4	7113
1×630	3.4	2.4	42.6	46.6	0.45	2.7	49.9	55.2	9093
3×16	3.4	1.8	28.1	30.9	0.45	2.1	34.3	38.2	2109
3×25	3.4	2.0	31.9	35.2	0.45	2.2	38.3	42.3	2747
3×35	3.4	2.0	33.8	37.1	0.45	2.3	40.4	44.9	3133
3×50	3.4	2.2	36.8	40.2	0.45	2.4	43.5	48.2	3772
3×70	3.4	2.3	40.7	44.6	0.45	2.6	47.9	52.7	4771
3×95	3.4	2.5	44.7	48.8	0.45	2.8	52.3	57.7	5900
3×120	3.4	2.6	48.6	53.1	0.45	2.9	56.3	61.8	7098
3×150	3.4	2.7	51.9	56.6	0.45	3.1	60.1	66.2	8304
3×185	3.4	2.9	56.2	61.1	0.45	3.2	64.6	70.8	9895
3×240	3.4	3.1	62.0	67.4	0.45	3.5	70.9	77.9	12358

#### 6.6/6.6kV

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
1×25	5.5	1.5	19.9	22.4	0.3	1.7	24.6	27.7	1211
1×35	5.5	1.5	20.8	23.3	0.3	1.7	25.5	28.6	1338
1×50	5.5	1.6	22.2	24.7	0.3	1.8	27.1	30.2	1565
1×70	5.5	1.7	24.1	26.7	0.45	1.9	29.9	33.6	2017
1×95	5.5	1.7	25.8	28.5	0.45	2.0	31.8	35.5	2383
1×120	5.5	1.8	27.7	30.4	0.45	2.0	33.7	37.5	2794
1×150	5.5	1.9	29.3	32.5	0.45	2.1	35.5	39.4	3213
1×185	5.5	1.9	31.1	34.3	0.45	2.2	37.5	41.5	3737





## MV Flame Retardant 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
1×240	5.5	2.0	33.8	37.2	0.45	2.3	40.4	44.9	4548
1×300	5.5	2.1	36.4	39.8	0.45	2.4	43.1	47.7	5392
1×400	5.5	2.3	39.9	43.8	0.45	2.6	47.0	51.8	6384
1×500	5.5	2.4	43.2	47.2	0.45	2.7	50.5	55.8	7689
1×630	5.5	2.5	46.8	51.0	0.45	2.8	54.3	59.8	9709
3×25	5.5	2.3	41.2	45.1	0.45	2.6	48.4	53.6	3746
3×35	5.5	2.4	43.3	47.3	0.45	2.7	50.6	55.9	4204
3×50	5.5	2.5	46.1	50.2	0.45	2.8	53.6	59.0	4872
3×70	5.5	2.7	50.2	54.8	0.45	3.0	58.1	64.1	5992
3×95	5.5	2.8	54.0	58.8	0.45	3.1	62.1	68.3	7130
3×120	5.5	3.0	58.0	63.0	0.45	3.3	66.5	72.9	8486
3×150	5.5	3.1	61.4	66.8	0.45	3.4	70.1	77.0	9723
3×185	5.5	3.3	65.7	71.3	0.45	3.6	74.8	81.9	11448
3×240	5.5	3.5	71.5	77.6	0.45	3.9	81.2	89.0	14038

### 6.35/11kV

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
1×35	6.5	1.6	22.9	25.5	0.3	1.8	27.8	31.0	1514
1×50	6.5	1.7	24.3	26.9	0.45	1.9	30.1	33.8	1751
1×70	6.5	1.7	26.0	28.7	0.45	2.0	32.0	35.8	2201
1×95	6.5	1.8	27.9	30.7	0.45	2.1	34.1	37.9	2600
1×120	6.5	1.9	29.8	32.9	0.45	2.1	36.0	39.9	3021
1×150	6.5	1.9	31.2	34.5	0.45	2.2	37.6	41.6	3427
1×185	6.5	2.0	33.3	36.5	0.45	2.3	39.8	44.3	3987
1×240	6.5	2.1	36.0	39.4	0.45	2.4	42.7	47.3	4814
1×300	6.5	2.2	38.5	42.3	0.45	2.5	45.4	50.1	5674
1×400	6.5	2.4	42.0	46.0	0.45	2.6	49.2	54.4	6637
1×500	6.5	2.5	45.3	49.4	0.45	2.8	52.8	58.2	7986
1×630	6.5	2.6	48.9	53.5	0.45	2.9	56.6	62.2	10057
3×35	6.5	2.6	47.8	52.0	0.45	2.9	55.5	61.1	4793
3×50	6.5	2.7	50.6	55.2	0.45	3.0	58.5	64.6	5489
3×70	6.5	2.8	54.5	59.3	0.45	3.2	62.8	69.0	6612
3×95	6.5	3.0	58.6	63.5	0.45	3.3	67.0	73.4	7829
3×120	6.5	3.1	62.4	67.8	0.45	3.5	71.3	78.2	9182
3×150	6.5	3.3	66.0	71.5	0.45	3.6	75.0	82.2	10498
3×185	6.5	3.4	70.1	76.1	0.45	3.8	79.5	87.2	12218





### 1.9/3.3kV, 3.3/3.3kV HF-EPR Insulated, SW2/SW4 Sheathed

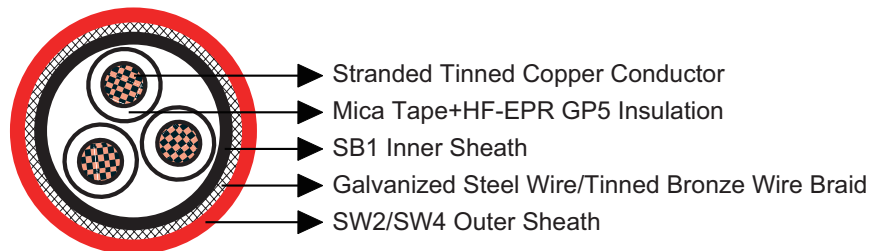
### Armoured Fire Resistant Power & Control Cables

#### Application

These fire resistant 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 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 GP5 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).
- 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 <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
1×25	2.2	1.2	13.4	15.2	0.3	1.4	17.5	19.9	687
1×35	2.2	1.3	14.4	16.4	0.3	1.4	18.6	21.0	806
1×50	2.2	1.3	15.6	17.6	0.3	1.5	20.0	22.8	983
1×70	2.2	1.4	17.6	19.6	0.3	1.6	22.1	25.0	1283
1×95	2.4	1.5	19.8	22.3	0.3	1.7	24.5	27.6	1637
1×120	2.4	1.6	21.7	24.2	0.3	1.7	26.4	29.5	1997
1×150	2.4	1.6	23.2	25.8	0.45	1.8	28.8	32.0	2439
1×185	2.4	1.7	25.2	27.8	0.45	1.9	31.0	34.7	2933
1×240	2.4	1.8	27.9	30.7	0.45	2.0	33.9	37.7	3671
1×300	2.4	1.9	30.4	33.6	0.45	2.1	36.6	40.5	4446
1×400	2.6	2.0	34.1	37.5	0.45	2.3	40.7	45.2	5435
1×500	2.8	2.2	38.0	41.5	0.45	2.5	44.9	49.6	6746
1×630	2.8	2.3	41.6	45.6	0.45	2.6	48.8	54.0	8583
3×25	2.2	1.8	27.4	30.1	0.45	2.0	33.4	37.2	2072
3×35	2.2	1.8	29.3	32.4	0.45	2.1	35.5	39.3	2422
3×50	2.2	1.9	32.1	35.3	0.45	2.2	38.4	42.8	2977
3×70	2.2	2.1	36.2	39.6	0.45	2.4	42.9	47.5	3920
3×95	2.4	2.3	41.0	44.9	0.45	2.6	48.2	53.4	5041
3×120	2.4	2.4	44.9	48.9	0.45	2.7	52.2	57.6	6165
3×150	2.4	2.6	48.4	53.0	0.45	2.9	56.2	61.7	7333
3×185	2.4	2.7	52.5	57.2	0.45	3.0	60.5	66.6	8800
3×240	2.4	3.0	58.5	63.8	0.45	3.3	67.0	73.4	11172
3×300	2.4	3.2	64.0	69.4	0.45	3.5	72.8	79.9	13587

#### 3.3/3.3kV

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
1×25	3.0	1.3	15.1	17.1	0.3	1.5	19.4	22.3	789
1×35	3.0	1.3	16.0	18.0	0.3	1.5	20.3	23.2	900
1×50	3.0	1.4	17.4	19.4	0.3	1.6	21.9	24.8	1097
1×70	3.0	1.5	19.3	21.7	0.3	1.6	23.8	26.8	1392
1×95	3.0	1.5	21.0	23.5	0.3	1.7	25.7	28.8	1715
1×120	3.0	1.6	22.9	25.4	0.3	1.8	27.8	30.9	2097
1×150	3.0	1.7	24.5	27.2	0.45	1.9	30.3	34.0	2568
1×185	3.0	1.7	26.3	29.0	0.45	2.0	32.3	36.1	3050
1×240	3.0	1.8	29.0	32.2	0.45	2.1	35.2	39.1	3798



## MV 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
1×300	3.0	1.9	31.6	34.8	0.45	2.2	37.9	41.9	4582
1×400	3.0	2.1	35.1	38.5	0.45	2.3	41.7	46.2	5533
1×500	3.2	2.2	38.7	42.6	0.45	2.5	45.7	50.4	6828
1×630	3.2	2.4	43.6	46.6	0.45	2.6	49.7	55.0	8712
3×25	3.0	1.9	30.9	34.1	0.45	2.1	37.1	41.1	2358
3×35	3.0	2.0	33.0	36.2	0.45	2.2	39.4	43.8	2747
3×50	3.0	2.1	35.8	39.1	0.45	2.3	42.3	46.9	3325
3×70	3.0	2.2	39.7	43.5	0.45	2.5	46.6	51.4	4274
3×95	3.0	2.4	43.7	47.7	0.45	2.7	51.1	56.4	5347
3×120	3.0	2.5	47.5	51.7	0.45	2.8	55.1	60.6	6493
3×150	3.0	2.7	51.1	55.7	0.45	3.0	59.0	65.1	7684
3×185	3.0	2.8	55.2	60.0	0.45	3.2	63.5	69.8	9213
3×240	3.0	3.1	61.2	66.6	0.45	3.4	69.9	76.8	11583
3×300	3.0	3.3	66.6	72.2	0.45	3.6	75.7	82.9	14031





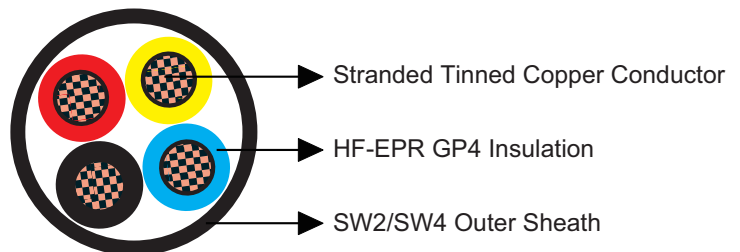
## 0.6/1kV HF-EPR Insulated, SW2/SW4 Sheathed Unarmoured Flame Retardant Power & Control Cables

### 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)



### Construction

- Conductor: Tinned copper wire stranded circular cl. 2 BS 6360/IEC 60228.
- Insulation: HF-EPR GP4 according to BS 7655 1.2.
- 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



## LV Flame Retardant Power & Control Cables

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

### Dimensions and Weight

#### Single core cables

Construction No. of cores×Cross section(mm <sup>2</sup> )	Nominal Insulation Thickness mm	Nominal 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	85
1×6	1.0	1.0	6.8	8.1	120
1×10	1.0	1.0	7.7	9.1	165
1×16	1.0	1.1	8.9	10.3	230
1×25	1.2	1.2	11.1	12.8	345
1×35	1.2	1.2	12.0	13.7	445
1×50	1.4	1.3	13.7	15.5	600
1×70	1.4	1.3	15.5	17.4	810
1×95	1.6	1.4	17.7	19.8	1100
1×120	1.6	1.5	19.6	22.0	1360
1×150	1.8	1.6	21.6	24.2	1650
1×185	2.0	1.7	24.0	26.6	2070
1×240	2.2	1.8	27.1	29.9	2670
1×300	2.4	1.9	30.0	33.2	3340

#### Multicore cables

Construction No. of cores×Cross section(mm <sup>2</sup> )	Nominal Insulation Thickness mm	Nominal 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	100
2×1.5	0.8	1.1	8.2	9.6	125
2×2.5	0.8	1.1	9.0	10.4	160
2×4	1.0	1.2	11.0	12.7	235
2×6	1.0	1.2	12.1	13.8	300
2×10	1.0	1.3	14.1	15.9	415
2×16	1.0	1.4	16.3	18.3	590
2×25	1.2	1.5	20.4	22.9	890
2×35	1.2	1.6	22.4	24.9	1150
2×50	1.4	1.7	25.7	28.4	1570
2×70	1.4	1.9	29.6	32.7	2140
2×95	1.6	2.1	34.1	37.4	2930
2×120	1.6	2.2	37.7	41.1	3600
3×1	0.8	1.1	8.2	9.5	110
3×1.5	0.8	1.1	8.7	10.1	150
3×2.5	0.8	1.1	9.6	11.0	190
3×4	1.0	1.2	11.7	13.4	280
3×6	1.0	1.2	12.9	14.7	370
3×10	1.0	1.3	15.0	17.0	505
3×16	1.0	1.4	17.4	19.4	750





# BS 6883&BS 7917 Caledonian Offshore & Marine Cables

## LV Flame Retardant 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 Sheath Thickness mm	Minimum Overall Diameter mm	Maximum Overall Diameter mm	Approx. Weight kg/km
3×25	1.2	1.6	22.0	24.6	1150
3×35	1.2	1.7	24.1	26.7	1490
3×50	1.4	1.8	27.7	30.5	2030
3×70	1.4	2.0	31.8	35.1	2790
3×95	1.6	2.2	36.7	40.1	3820
3×120	1.6	2.3	40.5	44.4	4710
3×150	1.8	2.5	44.9	49.0	5710
3×185	2.0	2.7	50.1	54.6	7180
3×240	2.2	2.9	56.7	61.5	9310
3×300	2.4	3.2	63.1	68.6	10860
4×1	0.8	1.1	8.9	10.3	140
4×1.5	0.8	1.1	9.5	10.9	175
4×2.5	0.8	1.1	10.5	12.1	225
4×4	1.0	1.2	12.9	14.6	340
4×6	1.0	1.3	14.4	16.2	465
4×10	1.0	1.4	16.7	18.7	640
4×16	1.0	1.5	19.4	21.8	960
4×25	1.2	1.7	24.5	27.1	1550
4×35	1.2	1.8	26.8	29.5	1920
4×50	1.4	1.9	30.8	34.0	2600
4×70	1.4	2.1	35.4	38.8	3570
4×95	1.6	2.3	40.8	44.7	4900
4×120	1.6	2.5	45.2	49.3	6070
4×150	1.8	2.7	50.1	54.7	7360
4×185	2.0	2.9	55.8	60.7	9260
4×240	2.2	3.2	63.4	68.9	12030
5×1.5	0.8	1.1	10.4	12.0	200
7×1.5	0.8	1.2	11.5	13.2	255
12×1.5	0.8	1.3	15.2	17.2	405
19×1.5	0.8	1.4	18.0	20.1	600
27×1.5	0.8	1.6	21.9	24.5	850
37×1.5	0.8	1.7	24.7	27.3	1120
5×2.5	0.8	1.2	11.7	13.3	270
7×2.5	0.8	1.2	12.7	14.4	335
12×2.5	0.8	1.4	17.1	19.1	550
19×2.5	0.8	1.5	20.2	22.7	830



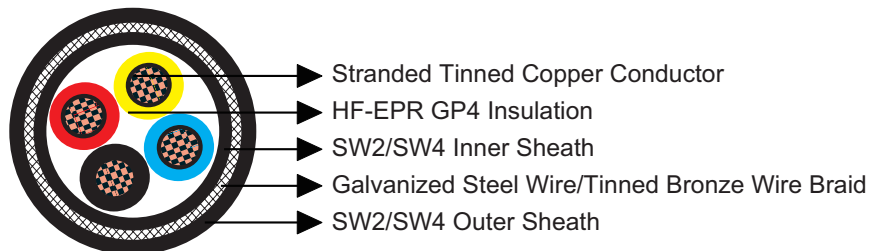
## 0.6/1kV HF-EPR Insulated, SW2/SW4 Sheathed Armoured Flame Retardant Power & Control Cables

### 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)



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





### 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





## LV Flame Retardant 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
3×10	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





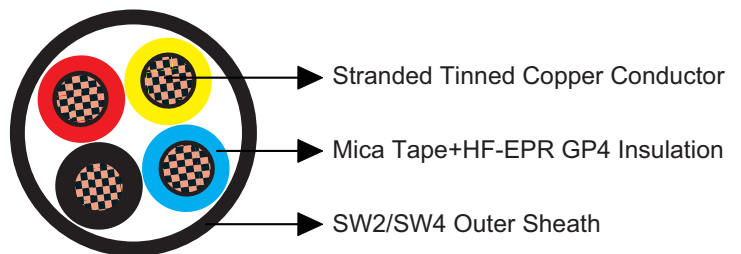
### 0.6/1kV HF-EPR Insulated, SW2/SW4 Sheathed Unarmoured Fire Resistant Power & Control Cables

#### 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.
- 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



## LV Fire Resistant Power & Control Cables

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

### Dimensions and Weight

#### Single core cables

Construction No. of cores×Cross section(mm <sup>2</sup> )	Nominal Insulation Thickness mm	Nominal 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	90
1×6	1.0	1.0	7.2	8.5	135
1×10	1.0	1.0	8.1	9.5	180
1×16	1.0	1.1	9.3	10.7	315
1×25	1.2	1.2	11.5	13.2	550
1×35	1.2	1.2	12.3	14.1	715
1×50	1.4	1.3	14.1	15.9	830
1×70	1.4	1.3	15.8	17.8	1110
1×95	1.6	1.4	18.1	20.2	1470
1×120	1.6	1.5	20.0	22.4	2130
1×150	1.8	1.6	22.0	24.6	2475
1×185	2.0	1.7	24.4	27.0	2870
1×240	2.2	1.8	27.5	30.3	3120
1×300	2.4	1.9	30.4	33.6	4060

#### Multicore cables

Construction No. of cores×Cross section(mm <sup>2</sup> )	Nominal Insulation Thickness mm	Nominal 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	145
2×2.5	0.8	1.1	9.8	11.4	180
2×4	1.0	1.2	11.8	13.5	260
2×6	1.0	1.2	12.9	14.6	325
2×10	1.0	1.3	14.9	16.8	445
2×16	1.0	1.4	17.1	19.1	630
2×25	1.2	1.5	21.2	23.7	930
2×35	1.2	1.6	23.1	25.7	1210
2×50	1.4	1.7	26.5	29.2	1630
2×70	1.4	1.9	30.3	33.5	2210
2×95	1.6	2.1	34.9	38.2	3010
2×120	1.6	2.2	38.4	42.2	3690
3×1.5	0.8	1.1	9.6	11.0	170
3×2.5	0.8	1.1	10.4	12.1	210
3×4	1.0	1.2	12.6	14.3	310
3×6	1.0	1.2	13.8	15.5	395
3×10	1.0	1.3	15.9	17.8	590
3×16	1.0	1.4	18.2	20.3	830
3×25	1.2	1.6	22.9	25.4	1270
3×35	1.2	1.7	24.9	27.6	1540





Construction No. of cores×Cross section(mm <sup>2</sup> )	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Minimum Overall Diameter mm	Maximum Overall Diameter mm	Approx. Weight kg/km
3×50	1.4	1.8	28.5	31.3	2100
3×70	1.4	2.0	32.7	35.9	2870
3×95	1.6	2.2	37.5	41.0	3910
3×120	1.6	2.3	41.3	45.3	4800
3×150	1.8	2.5	45.8	49.9	5810
3×185	2.0	2.7	50.9	55.5	7290
3×240	2.2	2.9	57.5	62.4	9440
4×1.5	0.8	1.1	10.5	12.1	200
4×2.5	0.8	1.1	11.4	13.1	250
4×4	1.0	1.2	13.8	15.6	375
4×6	1.0	1.3	15.3	17.3	495
4×10	1.0	1.4	17.7	19.7	740
4×16	1.0	1.5	20.3	22.8	1050
4×25	1.2	1.7	25.5	28.1	1580
4×35	1.2	1.8	27.7	30.5	1960
4×50	1.4	1.9	31.8	35.0	2570
4×70	1.4	2.1	36.3	39.7	3530
4×95	1.6	2.3	41.7	45.7	4850
4×120	1.6	2.5	46.2	50.3	5990
5×1.5	0.8	1.1	11.4	13.1	220
7×1.5	0.8	1.2	12.6	14.4	285
12×1.5	0.8	1.3	16.8	18.8	465
19×1.5	0.8	1.4	19.9	22.4	680
27×1.5	0.8	1.6	24.3	26.9	960
37×1.5	0.8	1.7	27.4	30.4	1260
5×2.5	0.8	1.2	12.7	14.4	310
7×2.5	0.8	1.2	13.9	15.6	375
12×2.5	0.8	1.4	18.7	20.8	610
19×2.5	0.8	1.5	22.1	24.7	895





## 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





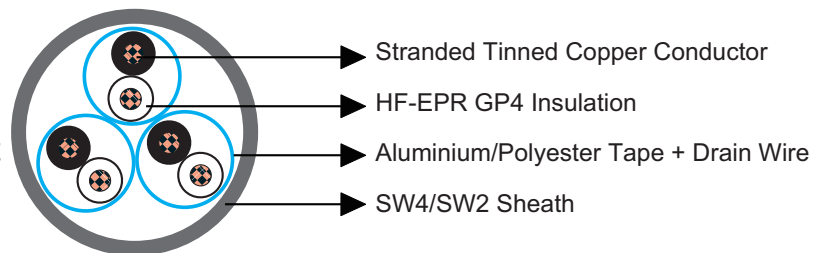
## 150/250V HF-EPR Insulated, SW2/SW4 Sheathed, Individually Screened Unarmoured Flame Retardant Instrumentation & Control Cables

### 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, quads.
- Individual Screen: Aluminium/polyester tape + drain wire tinned copper.
- 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:  $8 \times OD$   
Temperature Range: -40°C ~ +90°C





## Flame Retardant Instrumentation & Control Cables

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

### Dimensions and Weight

Construction No. of cores×Cross section(mm <sup>2</sup> )	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Minimum Overall Diameter mm	Maximum Overall Diameter mm	Approx. Weight kg/km
Multipair					
1×2×0.75	0.8	1.0	7.3	9.0	90
3×2×0.75	0.8	1.2	12.6	14.5	200
7×2×0.75	0.8	1.4	16.9	19.0	390
12×2×0.75	0.8	1.6	21.2	23.7	630
20×2×0.75	0.8	1.9	27.0	29.8	1010
27×2×0.75	0.8	2.0	30.8	33.9	1320
37×2×0.75	0.8	2.2	35.9	39.3	1560
1×2×1	0.8	1.0	7.7	9.5	100
3×2×1	0.8	1.3	13.5	15.5	240
7×2×1	0.8	1.4	18.0	20.1	470
12×2×1	0.8	1.7	22.8	25.4	780
20×2×1	0.8	1.9	28.8	31.6	1230
27×2×1	0.8	2.1	32.8	36.0	1630
37×2×1	0.8	2.3	38.5	42.3	2180
Multitripair					
1×3×0.75	0.8	1.0	7.7	9.4	100
3×3×0.75	0.8	1.3	14.2	16.2	250
7×3×0.75	0.8	1.5	19.7	22.1	500
12×3×0.75	0.8	1.7	24.4	27.1	830
1×3×1	0.8	1.1	8.4	10.1	120
3×3×1	0.8	1.3	15.0	17.2	300
7×3×1	0.8	1.5	21.0	23.5	610
12×3×1	0.8	1.8	26.2	28.9	1020
Multiquad					
1×4×0.75	0.8	1.1	8.6	10.4	120
3×4×0.75	0.8	1.4	16.4	18.5	310
7×4×0.75	0.8	1.6	22.1	24.7	620
1×4×1	0.8	1.1	9.1	10.9	140
3×4×1	0.8	1.4	17.5	19.6	360
7×4×1	0.8	1.6	23.6	26.2	740





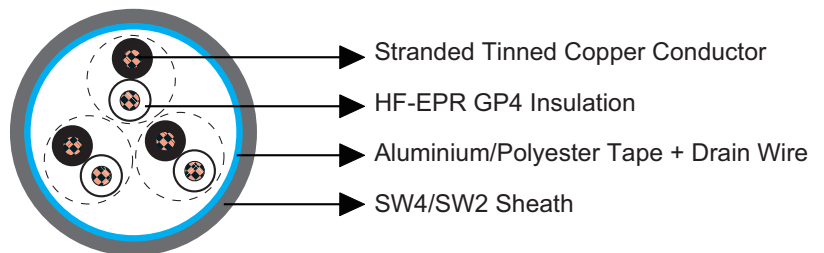
## 150/250V HF-EPR Insulated, SW2/SW4 Sheathed, Collectively Screened Unarmoured Flame Retardant Instrumentation & Control Cables

### 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.
- 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:  $8 \times OD$   
Temperature Range: -40°C ~ +90°C



## Flame Retardant Instrumentation & Control Cables

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

### Dimensions and Weight

Construction No. of cores×Cross section(mm <sup>2</sup> )	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Minimum Overall Diameter mm	Maximum Overall Diameter mm	Approx. Weight kg/km
Multipair					
3×2×0.75	0.8	1.2	12.6	14.5	175
7×2×0.75	0.8	1.4	16.6	18.7	330
12×2×0.75	0.8	1.6	21.7	24.2	530
20×2×0.75	0.8	1.8	27.3	30.1	830
27×2×0.75	0.8	1.9	31.1	34.2	1070
37×2×0.75	0.8	2.1	34.4	37.7	1430
3×2×1	0.8	1.2	13.3	15.3	185
7×2×1	0.8	1.4	17.6	19.8	360
12×2×1	0.8	1.6	23.1	25.7	590
20×2×1	0.8	1.8	29.1	31.9	920
27×2×1	0.8	2.0	33.3	36.6	1220
37×2×1	0.8	2.2	36.9	40.3	1630
Multitriples					
3×3×0.75	0.8	1.3	14.2	16.2	230
7×3×0.75	0.8	1.4	19.4	21.9	440
12×3×0.75	0.8	1.7	24.2	26.8	730
3×3×1	0.8	1.3	15.1	17.1	260
7×3×1	0.8	1.5	20.9	23.4	510
12×3×1	0.8	1.7	25.8	28.5	840





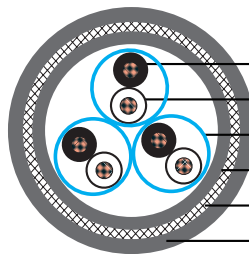
## 150/250V HF-EPR Insulated, SW2/SW4 Sheathed, Individually Screened Armoured Flame Retardant Instrumentation & Control Cables

### 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)



- ▶ Stranded Tinned Copper Conductor
- ▶ HF-EPR GP4 Insulation
- ▶ Aluminium/Polyester Tape + Drain Wire
- ▶ SW2/SW4 Inner Sheath
- ▶ Galvanized Steel 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.
- Lay-up: Pairs, triples, quads.
- Individual 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×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
Multipair									
1×2×0.75	0.8	1.0	7.3	9.0	0.3	1.2	11.1	12.9	250
3×2×0.75	0.8	1.2	12.6	14.5	0.3	1.4	16.7	19.0	440
7×2×0.75	0.8	1.4	16.9	19.0	0.3	1.6	21.4	24.3	730
12×2×0.75	0.8	1.6	21.3	23.7	0.3	1.8	26.1	29.2	1090
20×2×0.75	0.8	1.9	27.0	29.8	0.45	2.1	33.2	37.0	1750
27×2×0.75	0.8	2.0	30.8	33.9	0.45	2.3	37.3	41.3	2190
37×2×0.75	0.8	2.2	35.9	39.3	0.45	2.5	42.9	47.5	2780
1×2×1	0.8	1.0	7.7	9.5	0.3	1.2	11.5	13.4	260
3×2×1	0.8	1.3	13.5	15.5	0.3	1.4	17.6	20.0	490
7×2×1	0.8	1.4	18.0	20.1	0.3	1.6	22.5	25.4	810
12×2×1	0.8	1.7	22.8	25.4	0.45	1.9	28.6	31.8	1370
20×2×1	0.8	1.9	28.8	31.6	0.45	2.2	35.2	39.0	2010
27×2×1	0.8	2.1	32.8	36.0	0.45	2.4	39.5	44.0	2570
37×2×1	0.8	2.3	38.5	42.3	0.45	2.6	45.7	50.4	3290
Multitrip									
1×3×0.75	0.8	1.0	7.7	9.4	0.3	1.2	11.5	13.3	270
3×3×0.75	0.8	1.3	14.2	16.2	0.3	1.5	18.6	20.9	540
7×3×0.75	0.8	1.5	19.7	22.1	0.3	1.7	24.4	27.4	910
12×3×0.75	0.8	1.7	24.4	27.1	0.45	2.0	30.4	34.1	1500
1×3×1	0.8	1.1	8.4	10.1	0.3	1.2	12.1	14.0	290
3×3×1	0.8	1.3	15.0	17.2	0.3	1.5	19.4	22.3	600
7×3×1	0.8	1.5	21.0	23.5	0.3	1.7	25.7	28.8	1030
12×3×1	0.8	1.8	26.2	28.9	0.45	2.0	32.2	36.0	1740
Multiquad									
1×4×0.75	0.8	1.1	8.6	10.4	0.3	1.2	12.4	14.3	290
3×4×0.75	0.8	1.4	16.4	18.5	0.3	1.5	20.9	23.8	610
7×4×0.75	0.8	1.6	22.1	24.7	0.3	1.7	27.0	30.2	1060
1×4×1	0.8	1.1	9.1	10.9	0.3	1.2	12.9	14.8	330
3×4×1	0.8	1.4	17.5	19.6	0.3	1.6	22.0	24.9	680
7×4×1	0.8	1.6	23.6	26.2	0.45	1.8	29.4	32.0	1290





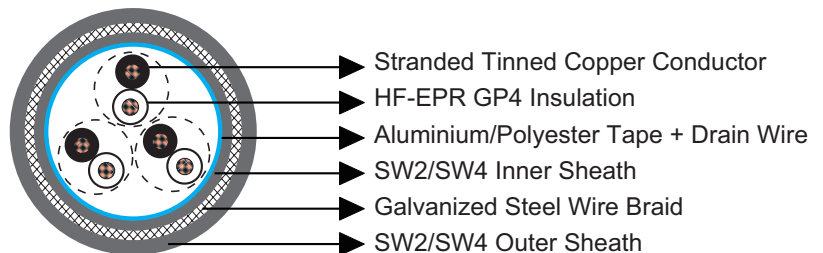
## 150/250V HF-EPR Insulated, SW2/SW4 Sheathed, Collectively Screened Armoured Flame Retardant Instrumentation & Control Cables

### 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×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
Multipair									
3×2×0.75	0.8	1.2	12.6	14.5	0.3	1.4	16.7	19.0	390
7×2×0.75	0.8	1.4	16.6	18.7	0.3	1.5	20.9	23.8	620
12×2×0.75	0.8	1.6	21.7	24.2	0.3	1.7	26.4	29.5	930
20×2×0.75	0.8	1.8	27.3	30.1	0.45	2.0	33.3	37.1	1460
27×2×0.75	0.8	1.9	31.1	34.2	0.45	2.2	37.4	41.4	1810
37×2×0.75	0.8	2.1	34.4	37.7	0.45	2.3	41.0	45.5	2270
3×2×1	0.8	1.2	13.3	15.3	0.3	1.4	17.4	19.8	410
7×2×1	0.8	1.4	17.6	19.8	0.3	1.6	22.1	25.1	680
12×2×1	0.8	1.6	23.1	25.7	0.3	1.8	28.0	31.2	1010
20×2×1	0.8	1.8	29.0	31.9	0.45	2.1	35.3	39.2	1600
27×2×1	0.8	2.0	33.3	36.6	0.45	2.2	39.7	44.2	2000
37×2×1	0.8	2.2	36.9	40.3	0.45	2.4	43.7	48.3	2540
Multitriples									
3×3×0.75	0.8	1.3	14.2	16.2	0.3	1.4	18.3	20.7	480
7×3×0.75	0.8	1.4	19.4	21.9	0.3	1.6	24.0	27.0	780
12×3×0.75	0.8	1.7	24.2	26.8	0.45	1.9	29.3	32.9	1320
3×3×1	0.8	1.3	15.1	17.1	0.3	1.5	19.4	22.2	530
7×3×1	0.8	1.5	20.9	23.4	0.3	1.7	25.6	28.7	890
12×3×1	0.8	1.7	25.8	28.5	0.45	2.0	31.8	35.5	1480





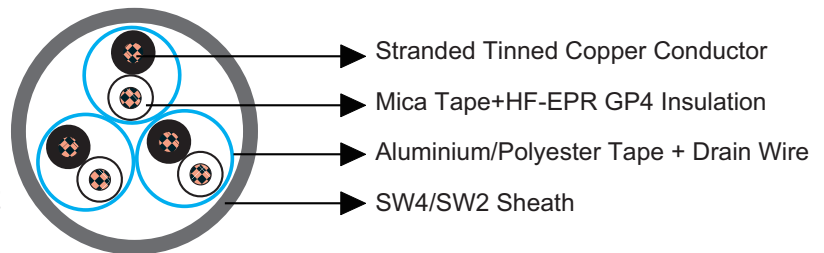
## 150/250V HF-EPR Insulated, SW2/SW4 Sheathed, Individually Screened Unarmoured Fire Resistant Instrumentation & Control Cables

### 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, quads.
- Individual Screen: Aluminium/polyester tape + drain wire tinned copper.
- 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:  $8 \times OD$   
Temperature Range: -40°C ~ +90°C





## Flire Resistant Instrumentation & Control Cables

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

### Dimensions and Weight

Construction No. of cores×Cross section(mm <sup>2</sup> )	Nominal Insulation Thickness mm	Nominal 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	97
3×2×0.75	0.8	1.2	14.0	16.0	227
7×2×0.75	0.8	1.4	19.0	21.1	449
12×2×0.75	0.8	1.6	23.8	26.4	740
20×2×0.75	0.8	1.9	30.4	33.5	1183
27×2×0.75	0.8	2.0	34.6	37.9	1555
37×2×0.75	0.8	2.2	40.5	44.3	1846
1×2×1	0.8	1.0	8.5	10.3	108
3×2×1	0.8	1.3	15.0	17.0	264
7×2×1	0.8	1.4	20.0	22.5	522
12×2×1	0.8	1.7	25.4	28.0	865
20×2×1	0.8	1.9	32.1	35.3	1377
27×2×1	0.8	2.1	36.8	40.2	1814
37×2×1	0.8	2.3	43.0	47.0	2432
Multitriple					
1×3×0.75	0.8	1.0	8.1	9.8	104
3×3×0.75	0.8	1.3	15.0	17.0	269
7×3×0.75	0.8	1.5	20.8	23.3	527
12×3×0.75	0.8	1.7	25.8	28.5	880
1×3×1	0.8	1.1	8.7	10.5	124
3×3×1	0.8	1.3	15.8	17.9	310
7×3×1	0.8	1.5	22.0	24.5	622
12×3×1	0.8	1.8	27.5	30.2	1032
Multiquad					
1×4×0.75	0.8	1.1	9.1	10.9	137
3×4×0.75	0.8	1.4	17.4	19.5	366
7×4×0.75	0.8	1.6	23.5	26.1	725
1×4×1	0.8	1.1	9.6	11.4	148
3×4×1	0.8	1.4	18.4	20.6	413
7×4×1	0.8	1.6	24.9	27.6	843





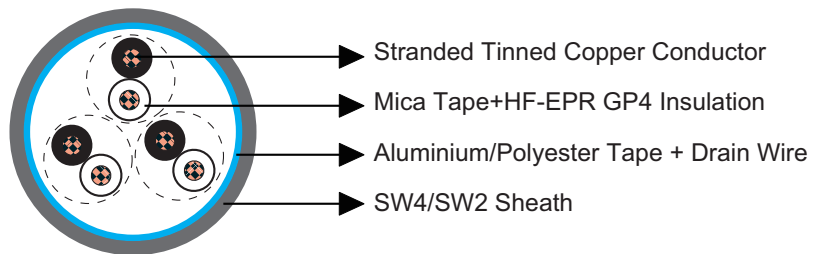
## 150/250V HF-EPR Insulated, SW2/SW4 Sheathed, Collectively Screened Unarmoured Fire Resistant Instrumentation & Control Cables

### 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.
- Collective Screen: Aluminium/polyester tape + drain wire tinned copper.
- 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:  $8 \times OD$   
Temperature Range: -40°C ~ +90°C



## Flire Resistant Instrumentation & Control Cables

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

### Dimensions and Weight

Construction No. of cores×Cross section(mm <sup>2</sup> )	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Minimum Overall Diameter mm	Maximum Overall Diameter mm	Approx. Weight kg/km
Multipair					
3×2×0.75	0.8	1.2	14.0	16.0	202
7×2×0.75	0.8	1.4	18.6	20.7	383
12×2×0.75	0.8	1.6	24.4	27.0	615
20×2×0.75	0.8	1.8	30.8	34.0	841
27×2×0.75	0.8	1.9	35.0	38.4	1265
37×2×0.75	0.8	2.1	38.8	42.6	1707
3×2×1	0.8	1.2	14.8	16.8	208
7×2×1	0.8	1.4	19.6	22.0	413
12×2×1	0.8	1.6	25.8	28.5	683
20×2×1	0.8	1.8	32.6	35.8	1070
27×2×1	0.8	2.0	37.3	40.8	1421
37×2×1	0.8	2.2	41.3	45.2	1912
Multitriple					
3×3×0.75	0.8	1.3	15.0	17.0	244
7×3×0.75	0.8	1.4	20.5	23.0	457
12×3×0.75	0.8	1.7	25.6	28.3	758
3×3×1	0.8	1.3	15.8	17.8	270
7×3×1	0.8	1.5	21.9	24.4	521
12×3×1	0.8	1.7	27.1	29.8	857





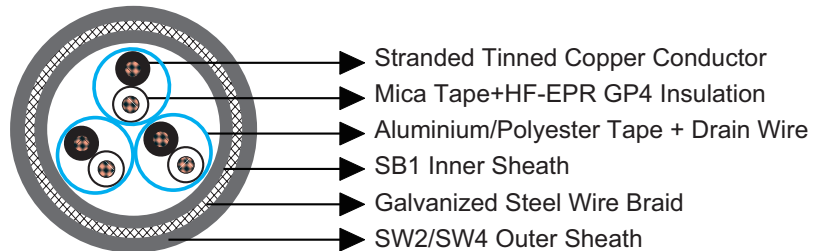
## 150/250V HF-EPR Insulated, SW2/SW4 Sheathed, Individually Screened Armoured Fire Resistant Instrumentation & Control Cables

### 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](http://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 <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
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





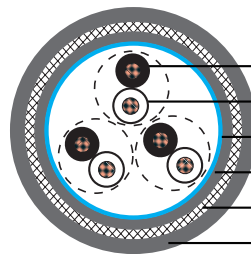
## 150/250V HF-EPR Insulated, SW2/SW4 Sheathed, Collectively Screened Armoured Fire Resistant Instrumentation & Control Cables

### 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)



- ▶ Stranded Tinned Copper Conductor
- ▶ Mica Tape+HF-EPR GP4 Insulation
- ▶ Aluminium/Polyester Tape + Drain Wire
- ▶ SB1 Inner Sheath
- ▶ Galvanized Steel Wire Braid
- ▶ SW2/SW4 Outer Sheath

### 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.
- Collective 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](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×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
Multipair									
3×2×0.75	0.8	1.2	14.0	16.0	0.3	1.4	18.1	20.5	450
7×2×0.75	0.8	1.4	18.6	20.7	0.3	1.5	22.9	25.8	720
12×2×0.75	0.8	1.6	24.4	27.0	0.3	1.7	29.1	32.7	1080
20×2×0.75	0.8	1.8	30.8	34.0	0.45	2.0	36.8	40.7	1480
27×2×0.75	0.8	1.9	35.0	38.4	0.45	2.2	41.4	45.9	2140
37×2×0.75	0.8	2.1	38.8	42.6	0.45	2.3	45.4	50.1	2710
3×2×1	0.8	1.2	14.8	16.8	0.3	1.4	18.9	21.3	460
7×2×1	0.8	1.4	19.6	22.0	0.3	1.6	24.1	27.1	780
12×2×1	0.8	1.6	25.8	28.5	0.3	1.8	30.7	34.4	1170
20×2×1	0.8	1.8	32.6	35.8	0.45	2.1	38.8	43.2	1860
27×2×1	0.8	2.0	37.3	40.8	0.45	2.2	43.7	48.3	2330
37×2×1	0.8	2.2	41.3	45.2	0.45	2.4	48.1	53.3	2980
Multitriples									
3×3×0.75	0.8	1.3	15.0	17.0	0.3	1.4	19.1	21.5	510
7×3×0.75	0.8	1.4	20.5	23.0	0.3	1.6	25.1	28.1	810
12×3×0.75	0.8	1.7	25.6	28.3	0.45	1.9	31.4	35.1	1370
3×3×1	0.8	1.3	15.8	17.8	0.3	1.5	20.1	22.9	550
7×3×1	0.8	1.5	21.9	24.4	0.3	1.7	26.6	29.7	910
12×3×1	0.8	1.7	27.1	29.8	0.45	2.0	33.1	36.9	1510





### Cores Identification

### Insulation Colour Scheme

#### MV cables

Single core	Natural colour of the compound
Three core	Coloured tape or thread (e.g.: red - yellow - blue)

#### 0.6/1 kV Power and Control Cables

According to BS 6883/BS 7917		Alternatives
1 core	Red or Black	White and numbered
2 cores	Red - Black	White and numbered
3 cores	Red - Yellow - Blue	White and numbered
4 cores	Red - Yellow - Blue - Black	White and numbered
Above 4 cores	black numbers on white background	

#### 150/250 V Instrumentation Cables

Pair	Black - White
Triple	Black - White - Red
Quad	Black - White - Red - Blue

Pairs/Triples/Quads are numbered with numbers printed directly on the insulated conductors (1-1; 2-2; ...) or buy numbered tape

### Outer Sheath Standard Colours

MV power and control	Red
LV power and control	Black
Instrumentation and control	Grey
Other colours available on request	





## **UNITED KINGDOM**

Marchants Industrial Centre,  
Mill Lane, Laughton, Lewes,  
East Sussex, BN8 6AJ, UK  
Tel: 44 (0) 207 419 5087  
Fax: 44 (0) 207 831 9489  
Email: [sales@caledonian-cables.co.uk](mailto:sales@caledonian-cables.co.uk)  
[www.caledonian-cables.co.uk](http://www.caledonian-cables.co.uk)

## **HONG KONG**

Unit B 22/F CMA Building,  
64-66 Connaught Road Central,  
Hong Kong  
Tel: 852 36527508  
Fax: 852 35834834  
Email: [hk@caledonian-cables.co.uk](mailto:hk@caledonian-cables.co.uk)  
[www.caledonian-cables.co.uk](http://www.caledonian-cables.co.uk)