



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

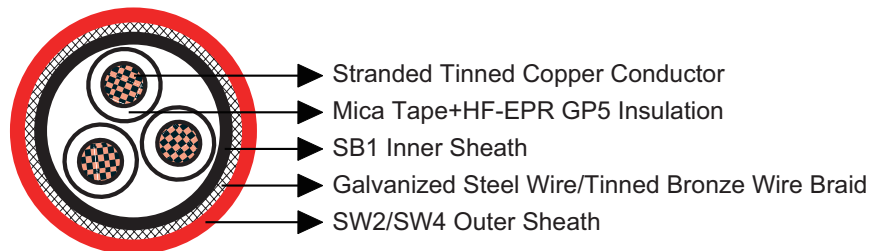
Armoured Fire Resistant Power & Control Cables

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 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
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 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
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

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
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

