



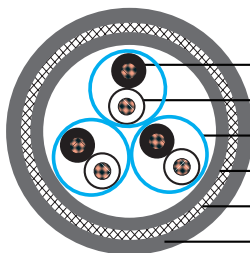
150/250V HF-EPR Insulated, SW2/SW4 Sheathed, Individually Screened Armoured Fire Resistant Instrumentation & Control Cables

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)



- ▶ 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.
- 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

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 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									
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

