



# NEK606 Caledonian Offshore & Marine Cables

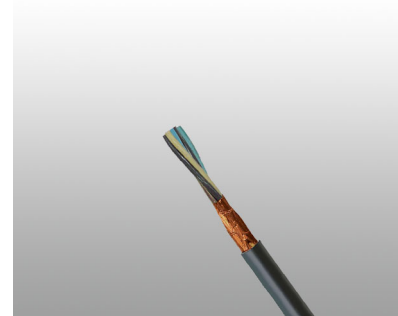
## Fire Resistant Instrumentation Cables

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

### S108 (Formerly S14) BU(c) 250 V

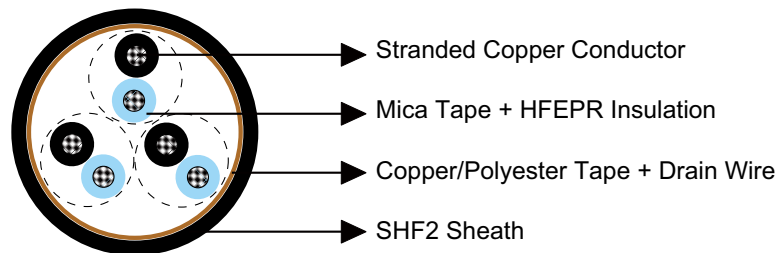
#### Applications

These unarmoured cables are fire resistant, flame retardant, low smoke and halogen free, used for instrumentation, communication, control and alarm systems.



#### Standards

- IEC 60092-376
- IEC 60092-351
- IEC 60092-359
- IEC 60331-21
- IEC 60332-1
- IEC 60332-3-22
- IEC 60754-1,2
- IEC 61034-1,2
- NEK 606:2004



#### Construction

- **Conductors:** Circular tinned annealed stranded copper wire to IEC 60228 class 2 or class 5.
- **Insulation:** Mica tape + Halogen free EPR compound.
- **Twinning:** Colour coded cores twisted together.
- **Collective Shielding:** Pairs/triples are laid up and collectively screened by copper backed polyester tape in contact with a stranded tinned copper drain wire. Pairs/triples are numbered with numbered tape or by numbers printed directly on the insulated conductors.
- **Outer Sheath:** Halogen free thermosetting compound, SHF2, coloured grey (blue for intrinsically safe).



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### Electrical Characteristics

Nominal Cross Section Area	mm <sup>2</sup>	0.75	1.0	1.5
Nominal Conductor Diameter	mm	1.1	1.3	1.6
Maximum Resistant@20°C	Ω/km	26.3	19.3	12.9
Mutual Capacitance	nF/km	75	80	85
Nominal Inductance@1KHz	MH/km	0.727	0.686	0.667
Maximum L/R@1KHz	μH/Ω	20	25	35
Operating Voltage	V	250	250	250

### Mechanical and Thermal Properties

- Bending Radius: 8×OD (during installation); 6×OD (fixed installed)
- Temperature Range: -20°C ~ +90°C

### Dimensions and Weight

Construction No. of elements×No. of cores in element×Cross section(mm <sup>2</sup> )	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
2×2×0.75	0.6	1.1	10.2	185
4×2×0.75	0.6	1.2	12.5	240
7×2×0.75	0.6	1.4	15.0	350
8×2×0.75	0.6	1.4	16.3	395
12×2×0.75	0.6	1.5	19.5	540
16×2×0.75	0.6	1.6	21.8	690
19×2×0.75	0.6	1.7	23.2	780
24×2×0.75	0.6	1.8	26.7	985
32×2×0.75	0.6	2.1	29.6	1225
2×3×0.75	0.6	1.2	12.0	205
3×3×0.75	0.6	1.2	13.1	265
4×3×0.75	0.6	1.3	14.4	320
7×3×0.75	0.6	1.3	17.4	475
8×3×0.75	0.6	1.5	19.5	590
12×3×0.75	0.6	1.6	22.9	745
16×3×0.75	0.6	1.7	25.6	965
19×3×0.75	0.6	1.8	27.2	1095
24×3×0.75	0.6	2.0	31.6	1405
2×2×1.0	0.6	1.1	10.7	210





Construction No. of elements×No. of cores in element×Cross section(mm <sup>2</sup> )	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
4×2×1.0	0.6	1.1	13.3	285
7×2×1.0	0.6	1.4	16.0	415
8×2×1.0	0.6	1.4	17.3	465
12×2×1.0	0.6	1.6	20.8	645
16×2×1.0	0.6	1.7	23.3	825
19×2×1.0	0.6	1.8	24.7	940
24×2×1.0	0.6	1.9	28.8	1200
32×2×1.0	0.6	2.3	31.8	1495
3×3×1.0	0.6	1.2	14.0	310
4×3×1.0	0.6	1.4	15.3	380
7×3×1.0	0.6	1.6	18.6	570
12×3×1.0	0.6	1.6	24.4	900
16×3×1.0	0.6	1.7	27.3	1160
19×3×1.0	0.6	1.9	29.0	1325
24×3×1.0	0.6	2.1	33.7	1700
2×2×1.5	0.7	1.2	12.1	275
4×2×1.5	0.7	1.3	15.2	380
7×2×1.5	0.7	1.5	18.4	565
8×2×1.5	0.7	1.5	20.0	640
12×2×1.5	0.7	1.7	24.3	895
16×2×1.5	0.7	1.8	27.2	1150
19×2×1.5	0.7	1.9	28.6	1295
24×2×1.5	0.7	2.1	33.5	1670
32×2×1.5	0.7	2.3	37.0	2095
2×3×1.5	0.7	1.3	15.0	310
3×3×1.5	0.7	1.3	16.0	420
4×3×1.5	0.7	1.4	17.7	515
7×3×1.5	0.7	1.6	21.5	785
8×3×1.5	0.7	1.6	23.5	930
12×3×1.5	0.7	1.8	28.5	1255
16×3×1.5	0.7	1.9	31.9	1630
19×3×1.5	0.7	2.0	33.8	1855
24×3×1.5	0.7	2.2	39.3	2375