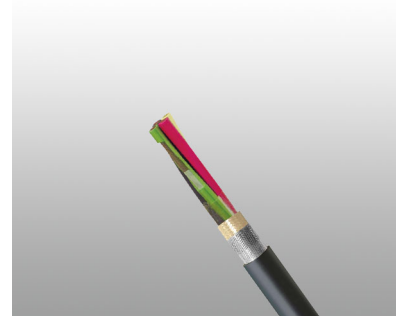




### P105 (Formerly P5 or P5/P12) BFOU 0.6/1KV

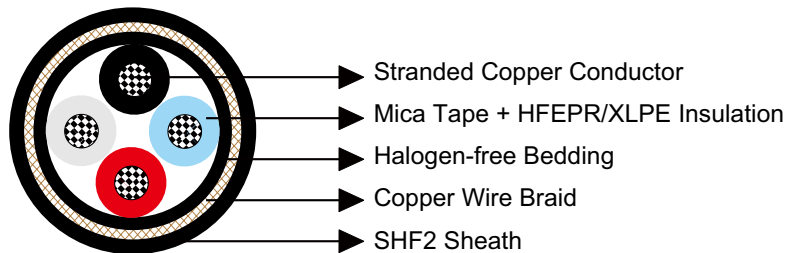
#### Applications

These cables are fire resistant, flame retardant, low smoke, halogen free and mud resistant, used for control, power and lighting systems.



#### Standards

- IEC 60092-353
- 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:** Tinned annealed stranded compacted copper to IEC 60228 class 2 or class 5.
- **Insulation:** Mica tape + Halogen free EPR/Mica tape + XLPE.
- **Bedding:** Halogen free compound.
- **Armour:** Tinned copper wire braid in accordance with IEC 60092-350.
- **Outer Sheath:** Halogen free thermosetting compound, SHF2 (for formerly TYPE P5). Halogen free, mud resistant thermosetting compound, SHF MUD (for formerly TYPE P5/P12), coloured black.

#### Electrical Characteristics

Nominal Cross Section Area	mm <sup>2</sup>	1.5	2.5	4	6	10	16	25	35	50
Nominal Conductor Diameter	mm	1.6	2.1	2.6	3.2	4	5.1	6.5	7.4	8.7



## Fire Resistant Power and Control Cables

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

Maximum DC Resistant@20°C	Ω/km	12.2	7.56	4.7	3.11	1.84	1.16	0.734	0.529	0.391
Continuous Current Rating@45°C 1 Core	A	23	30	40	52	72	96	127	157	196
Continuous Current Rating@45°C 2 Core	A	20	26	34	44	61	82	108	133	167
Continuous Current Rating@45°C 3&4 Core	A	16	21	28	36	50	67	89	110	137
Short Circuit Current 1s	A	210	360	570	860	1430	2290	3580	5010	7150
Operating Voltage	KV	0.6/1	0.6/1	0.6/1	0.6/1	0.6/1	0.6/1	0.6/1	0.6/1	0.6/1

Nominal Cross Section Area	mm <sup>2</sup>	70	95	120	150	185	240	300	400	630
Nominal Conductor Diameter	mm	10.3	12.2	13.8	15.1	17.0	19.6	21.9	24.6	32.5
Maximum DC Resistant@20°C	Ω/km	0.27	0.195	0.154	0.126	0.1	0.0762	0.0607	0.0475	0.0286
Continuous Current Rating@45°C 1 Core	A	242	293	339	389	444	522	601	690	890
Continuous Current Rating@45°C 2 Core	A	206	249	288	331	444	444	511	587	757
Continuous Current Rating@45°C 3&4 Core	A	169	205	237	272	311	365	421	483	623
Short Circuit Current 1s	A	10020	13590	17170	21460	26470	34340	42930	57230	90140
Operating Voltage	KV	0.6/1	0.6/1	0.6/1	0.6/1	0.6/1	0.6/1	0.6/1	0.6/1	0.6/1

Note: For more than 4-cores, the current ratings may be calculated from the following formula ( $I_N = I_1 / \sqrt[3]{N}$ ),  $I_1$  = Current rating for 1-core,  $N$  = Number of cores.

## Ambient Temperature Correction Factors

Ambient Temperature Correction Factors	35	40	45	50	55	60	65	70	75	80
Rating Factor	1.1	1.05	1.0	0.94	0.88	0.82	0.74	0.67	0.58	0.47

## 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 cores×Cross section(mm <sup>2</sup> )	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm		Nominal Overall Diameter mm	Nominal Weight kg/km
		Inner	Outer		
1×1.5	1.0	1.1	1.1	9.3	145
1×2.5	1.0	1.1	1.1	9.7	160
1×4	1.0	1.1	1.1	10.4	220
1×6	1.0	1.1	1.1	10.9	250





# NEK606 Caledonian Offshore & Marine Cables

## Fire Resistant Power and Control Cables

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Construction No. of cores×Cross section(mm <sup>2</sup> )	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm		Nominal Overall Diameter mm	Nominal Weight kg/km
		Inner	Outer		
1×10	1.0	1.1	1.2	12.7	310
1×16	1.0	1.1	1.2	13.9	390
1×25	1.2	1.1	1.3	16.3	585
1×35	1.2	1.1	1.3	17.2	690
1×50	1.4	1.1	1.4	19.0	890
1×70	1.4	1.1	1.4	20.6	1110
1×95	1.6	1.1	1.5	23.1	1440
1×120	1.6	1.2	1.6	25.0	1735
1×150	1.8	1.2	1.7	27.0	2060
1×185	2.0	1.2	1.7	29.4	2545
1×240	2.2	1.2	1.8	32.6	3170
1×300	2.4	1.2	1.9	35.3	3910
1×400	2.4	1.4	2.1	41.0	5100
1×630	2.8	1.4	2.3	48.5	7660
2×1.5	1.0	1.1	1.2	14.2	310
2×2.5	1.0	1.1	1.3	15.1	360
2×4	1.0	1.1	1.3	16.6	470
2×6	1.0	1.1	1.4	17.9	555
2×10	1.0	1.1	1.4	19.9	705
2×16	1.0	1.1	1.5	22.5	985
2×25	1.2	1.2	1.6	26.4	1360
2×35	1.2	1.2	1.7	28.4	1620
2×50	1.4	1.2	1.9	32.4	2290
2×70	1.4	1.2	2.1	38.0	3260
2×95	1.6	1.2	2.3	41.6	3910
2×120	1.6	1.4	2.4	45.3	4710
2×150	1.8	1.4	2.6	49.7	5670
2×185	2.0	1.4	2.7	54.3	6840
2×240	2.2	1.6	3.0	61.5	8790
2×300	2.4	1.6	3.2	67.8	10630
3×1.5	1.0	1.1	1.3	14.8	345
3×2.5	1.0	1.1	1.3	16.2	445
3×4	1.0	1.1	1.3	17.4	530
3×6	1.0	1.1	1.4	18.7	635
3×10	1.0	1.1	1.5	21.1	830
3×16	1.0	1.1	1.5	23.7	1160
3×25	1.2	1.2	1.7	28.1	1640
3×35	1.2	1.2	1.8	30.2	1980
3×50	1.4	1.2	2.0	34.3	2750
3×70	1.4	1.2	2.2	39.0	3675



## Fire Resistant Power and 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		Nominal Overall Diameter mm	Nominal Weight kg/km
		Inner	Outer		
3×95	1.6	1.4	2.4	44.7	4955
3×120	1.6	1.4	2.5	48.3	6035
3×150	1.8	1.4	2.7	53.2	7355
3×185	2.0	1.6	2.9	59.5	9025
3×240	2.2	1.6	3.2	66.5	11590
3×300	2.4	1.8	3.4	72.6	13740
4×1.5	1.0	1.1	1.3	16.4	400
4×2.5	1.0	1.1	1.3	17.3	505
4×4	1.0	1.1	1.4	18.8	620
4×6	1.0	1.1	1.4	20.1	750
4×10	1.0	1.1	1.5	22.7	985
4×16	1.0	1.2	1.6	25.9	1400
4×25	1.2	1.2	1.8	30.7	1995
4×35	1.2	1.2	1.9	33.1	2440
4×50	1.4	1.4	2.0	38.2	3430
4×70	1.4	1.4	2.2	42.7	4600
4×95	1.6	1.6	2.4	49.4	6135
4×120	1.6	1.6	2.5	53.6	7515
4×150	1.8	1.6	2.9	59.0	9010
4×185	2.0	1.6	3.1	64.7	11000
4×240	2.2	1.8	3.4	73.1	14160
4×300	2.4	1.8	3.7	80.7	17550
5×1.5	1.0	1.1	1.4	17.7	510
6×1.5	1.0	1.1	1.4	19.0	545
7×1.5	1.0	1.1	1.4	19.0	590
8×1.5	1.0	1.1	1.5	21.8	715
9×1.5	1.0	1.1	1.6	23.3	720
10×1.5	1.0	1.1	1.6	23.6	790
12×1.5	1.0	1.2	1.6	24.3	880
14×1.5	1.0	1.2	1.7	25.5	965
16×1.5	1.0	1.2	1.7	26.7	1035
19×1.5	1.0	1.2	1.7	27.4	1185
20×1.5	1.0	1.2	1.8	29.5	1260
23×1.5	1.0	1.2	1.9	31.8	1435
24×1.5	1.0	1.2	2.0	33.2	1510
27×1.5	1.0	1.2	2.0	33.9	1615
30×1.5	1.0	1.2	2.0	34.9	1735
32×1.5	1.0	1.4	2.0	35.5	1800
33×1.5	1.0	1.4	2.0	36.7	1940
37×1.5	1.0	1.4	2.0	38.0	2090





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## Fire Resistant Power and Control Cables

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Construction No. of cores×Cross section(mm <sup>2</sup> )	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm		Nominal Overall Diameter mm	Nominal Weight kg/km
		Inner	Outer		
44×1.5	1.0	1.4	2.3	42.6	2460
5×2.5	1.0	1.1	1.4	18.8	595
6×2.5	1.0	1.1	1.4	20.4	650
7×2.5	1.0	1.1	1.4	20.4	700
8×2.5	1.0	1.1	1.5	23.5	790
9×2.5	1.0	1.1	1.6	25.1	860
10×2.5	1.0	1.1	1.6	25.4	955
12×2.5	1.0	1.2	1.6	26.1	1045
14×2.5	1.0	1.2	1.7	27.3	1160
16×2.5	1.0	1.2	1.8	28.8	1265
19×2.5	1.0	1.2	1.8	29.6	1445
20×2.5	1.0	1.2	1.9	31.8	1545
23×2.5	1.0	1.4	2.0	34.7	1805
24×2.5	1.0	1.4	2.0	35.8	1850
27×2.5	1.0	1.4	2.0	35.4	1970
30×2.5	1.0	1.4	2.1	38.1	2235
33×2.5	1.0	1.4	2.2	39.6	2390
37×2.5	1.0	1.4	2.3	41.2	2610
44×2.5	1.0	1.4	2.4	46.2	3075

