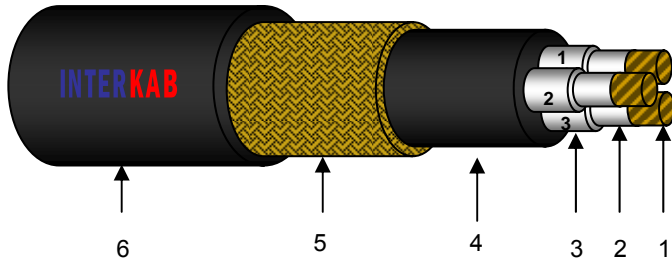


600 / 1000v  
Fire Resistant

## Offshore Power & Control Cables to NEK 606 Specification

**BFOU** - Power / Control Cables – Single and Multicore armoured cables



**Applicable Standards:**

NEK 606 / IEC 60092-3

IEC 60092-351

IEC 60331 part 3 (Category A)

IEC 60092-359

Stranded class 2 or tinned annealed copper conductors to IEC60228

<p><b>Application:</b></p>	<p>This range of cables is designed for use in fixed wiring on ships and offshore platforms and drilling rigs, especially used where life may be endangered by smoke and noxious fumes, and where sensitive equipment may be damaged by acid forming gases.</p>
<p><b>(1) Conductor:</b></p>	<p>Tinned Stranded Annealed Copper Conductor to IEC60228</p>
<p><b>(2) Fire Protection:</b></p>	<p>Mica Glass Tape</p>
<p><b>(3) Insulation:</b></p>	<p>(B) - EPR Complying with IEC60092-351</p>
<p><b>(4) Bedding:</b></p>	<p>(F) - SHF2 dual Compound thermo set rubber - IEC60092-359 Type SHF2, PETP-tape.</p>
<p><b>(5) Armour:</b></p>	<p>(O) - Tinned Copper Wire Braid to NVE FEA-M 1238.5, PETP-tape.</p>
<p><b>(6) Outer Sheath:</b></p>	<p>(U) - SHF2 dual Compound thermo set rubber - IEC60092-359 Type SHF2, Dual rated as being Both halogen free and mud resistant in accordance with NEK606, and meets cold bend and Impact test (-20C) cross sectional area C22.2.</p> <p>The legend will include the manufacturers name, voltage, NEK606, number of cores and cross sectional area, IEC60331 and NEK606 designation. The standard sheath Colour is black, but other colours are available on request,</p>
<p><b>Conductor Identification:</b></p>	<p>One core: Black Two cores: Blue - Brown Two cores + earth Blue - Brown - Yellow/green Three cores: Brown - Black - Grey Three cores + earth Brown - Black - Grey - Yellow/green Four cores: Blue - Brown - Black - Grey Four cores + earth Blue - Brown - Black - Grey - Yellow/green Five cores Blue - Brown - Black - Grey - Black Above 5-cores - Black numbers on white base.</p>

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## Offshore Power & Control Cables to NEK 606 Specification

**BFOU** - Power / Control Cables – Single and Multicore armoured cables

Cable	1 x16	1 x 25	1 x 35	1 x 50	1 x 70	1 x 95	1 x 120	1 x 150	1 x 185	1 x 240	1 x 300	2 x 1.5	2 x2.5	2 x 4
Stranding mm	7/1.70	19/1.35	19/1.53	19/1.78	19/2.14	37/1.78	37/2.03	37/2.25	37/2.52	61/2.25	61/2.52	7/0.53	7/0.67	7/0.85
Insulation Thickness mm	1.0	1.2	1.2	1.4	1.4	1.6	1.6	1.8	2.0	2.2	2.4	1.0	1.0	1.0
Thickness of Inner Sheath mm	1.1	1.1	-	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1
Diameter over Inner Sheath (min/max) mm	9.5/11.5	11.0/13.0	12.5/14.5	14.5/16.5	16.0/18.0	18.0/20.0	19.5/22.5	22.0/25.0	24.0/27.0	27.0/30.0	29.0/33.0	9.5/11.5	10.5/12.5	11.5/13.5
Diameter of Armour/Braid mm	0.2	0.3	-	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3
Thickness of Outer Sheath mm	1.2	1.3	-	1.4	1.4	1.5	1.6	1.7	1.7	1.8	1.9	1.2	1.3	1.3
Overall Diameter (min/max) mm	12.5/14.5	14.0/16.0	16.0/18.0	18.0/20.0	19.5/22.5	22.0/25.0	24.0/27.0	26.0/29.0	28.5/31.5	31.0/35.0	34.5/38.5	12.5/14.5	13.5/15.5	15.0/17.0
Gland Size	O	O	A	A	B	B	C	C	C	C2	C2	O	O	A
Weight kg/km	360	480	650	830	1070	1380	1700	2030	2470	3130	3820	280	320	420
Bend Radius - xOD	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Conductor Temperature - °C	85	85	85	85	85	85	85	85	85	85	85	85	85	85
Short Circuit Rating, 1second - ampere	2240	3500	4900	7000	9800	13300	16800	21000	25900	33600	42000	210	350	560
Current Rating at 45°C - ampere	90	120	145	180	225	275	320	365	415	490	560	17	24	32
DC Resistance max @ 20°C - Ω/km	1.1600	0.7340	0.5290	0.3910	0.2700	0.1950	0.1540	0.1260	0.1000	0.0762	0.0607	12.2000	7.5600	4.7000
DC Resistance max @ 50Hz - Ω/km	0.120	0.113	0.107	0.104	0.101	0.098	0.094	0.094	0.091	0.091	0.089	0.015	0.107	0.100
Sheath Colour	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black

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## Offshore Power & Control Cables to NEK 606 Specification

**BFOU** - Power / Control Cables – Single and Multicore armoured cables

Cable	2 x 6	2 x 10	2 x 16	3 x 1.5	3 x 2.5	3 x 4	3 x 6	3 x 10	3 x 16	3 x 25	3 x 35	3 x 50	3 x 70	3 x 95
Stranding mm	7/1.04	7/1.35	7/1.70	7/0.53	7/0.67	7/0.85	7/1.04	7/1.35	7/1.70	19/1.35	19/1.53	19/1.78	19/2.14	37/1.78
Insulation Thickness mm	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.2	1.4	1.4	1.6
Thickness of Inner Sheath mm	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.4	1.4
Diameter over Inner Sheath (min/max) mm	12.5/14.5	14.5/16.5	16.5/18.5	10.0/12.0	11.0/13.0	12.5/14.5	13.5/15.5	15.5/17.5	18.0/20.0	21.0/24.0	24.0/27.0	28.0/31.0	32.5/36.5	36.0/40.0
Diameter of Armour/Braid mm	0.3	0.3	0.5	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.4	0.5	0.6
Thickness of Outer Sheath mm	1.4	1.4	1.5	1.3	1.3	1.3	1.4	1.5	1.5	1.7	1.8	1.9	2.0	2.2
Overall Diameter (min/max) mm	16.5/18.5	18.5/20.5	21.0/24.0	13.5/15.5	14.5/16.5	16.0/18.0	17.5/19.5	19.5/21.5	22.0/25.0	25.5/28.5	28.0/32.0	32.5/36.5	38.0/43.0	42.0/47.0
Gland Size	A	A	B	O	A	A	A	B	B	C	C	C2	D	D
Weight kg/km	510	680	960	310	400	500	590	780	1130	1510	1930	2640	3630	4720
Bend Radius - xOD	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Conductor Temperature - °C	85	85	85	85	85	85	85	85	85	85	85	85	85	85
Short Circuit Rating, 1second - ampere	840	1400	2240	210	350	560	840	1400	2240	3500	4900	7000	9800	13300
Current Rating at 45°C - ampere	41	57	77	14	20	27	34	47	63	84	100	125	160	195
DC Resistance max @ 20°C - Ω/km	3.1100	1.8400	1.1600	12.2000	7.5600	4.7000	3.1100	1.8400	1.1600	0.7340	0.5290	0.3910	0.2700	0.1950
DC Resistance max @ 90°C - Ω/km	0.094	0.088	0.082	0.015	0.107	0.100	0.094	0.088	0.082	0.081	0.078	0.078	0.077	0.075
Sheath Colour	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black

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## Offshore Power & Control Cables to NEK 606 Specification

**BFOU** - Power / Control Cables – Single and Multicore armoured cables

Cable	3 x 120	3 x 150	3 x 185	4 x 1.5	4 x 2.5	4 x 4	4 x 6	4 x 10	4 x 16	4 x 25	4 x 35	4 x 50	4 x 70	4 x 95
Stranding mm	37/2.03	-	-	7/0.53	7/0.67	7/0.85	7/1.04	7/1.35	7/1.70	19/1.35	19/1.53	19/1.78	19/2.14	37/1.78
Insulation Thickness mm	1.6	1.8	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.2	1.4	1.4	1.6
Thickness of Inner Sheath mm	1.4	-	-	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.4	1.4	1.6
Diameter over Inner Sheath (min/max) mm	39.0/44.0	44.0/49.0	49.0/55.0	11.0/13.0	12.0/14.0	13.5/15.5	15.0/17.0	17.0/19.0	19.5/22.5	23.5/26.5	26.5/29.5	31.0/35.0	35.0/39.0	40.0/45.0
Diameter of Armour/Braid mm	0.6	-	-	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.4	0.4	0.5
Thickness of Outer Sheath mm	2.4	-	-	1.3	1.3	1.4	1.4	1.5	1.6	1.8	1.9	2.0	2.2	2.4
Overall Diameter (min/max) mm	46.0/51.0	51.5/57.5	58.0/65.0	15.0/17.0	16.0/18.0	17.5/19.5	18.5/21.5	21.5/23.5	24.5/27.5	28.0/31.0	31.0/35.0	36.5/40.5	41.0/46.0	46.5/51.5
Gland Size	D	E	E	A	A	A	B	B	C	C	C2	C2	D	D
Weight kg/km	5820	7210	9400	390	470	580	700	930	1370	1850	2370	3280	4390	5830
Bend Radius - xOD	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Conductor Temperature - °C	85	85	85	85	85	85	85	85	85	85	85	85	85	85
Short Circuit Rating, 1second - ampere	16800	21000	25900	210	350	560	840	1400	2240	3500	4900	7000	9800	13300
Current Rating at 45°C - ampere	225	255	290	14	20	27	34	47	63	84	100	125	160	195
DC Resistance max @ 20°C - Ω/km	0.1540	0.1260	0.1000	12.2000	7.5600	4.7000	3.1100	1.8400	1.1600	0.7340	0.5290	0.3910	0.2700	0.1950
DC Resistance max @ 50Hz - Ω/km	0.073	0.073	0.073	0.015	0.107	0.100	0.094	0.088	0.082	0.081	0.000	0.078	0.077	0.075
Sheath Colour	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black

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## Offshore Power & Control Cables to NEK 606 Specification

**BFOU** - Power / Control Cables – Single and Multicore armoured cables

Cable	4x120	4x185	5 x 1.5	7 x 1.5	7 x 2.5	12 x 1.5	12 x 2.5	19 x 1.5	19 x 2.5	27 x 1.5	27 x 2.5	37 x 1.5	37 x 2.5
Stranding mm	37/2.03	-	-	7/0.53	7/0.67	7/0.53	7/0.67	7/0.53	7/0.67	7/0.53	7/0.67	7/0.53	7/0.67
Insulation Thickness mm	1.6	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Thickness of Inner Sheath mm	1.6	-	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.4	1.4	1.4
Diameter over Inner Sheath (min/max) mm	43.5/48.5	55.0/61.0	12.0/14.0	13.5/15.5	14.5/16.5	18.0/20.0	19.5/22.5	21.0/24.0	23.0/26.0	25.5/28.5	28.0/31.0	28.5/32.5	31.5/35.5
Diameter of Armour/Braid mm	0.6	-	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4
Thickness of Outer Sheath mm	2.5	-	1.4	1.4	1.4	1.6	1.6	1.7	1.8	1.9	2.0	2.0	2.2
Overall Diameter (min/max) mm	50.5/56.5	65.0/72.0	16.0/18.0	17.0/19.0	18.5/20.5	21.5/24.5	23.5/26.5	25.5/28.5	27.5/30.5	29.5/33.5	32.5/36.5	33.5/37.5	37.0/41.0
Gland Size	E	F	A	A	A	B	C	C	C	C2	C2	C2	C2
Weight kg/km	7180	12000	460	520	650	780	980	1080	1350	1440	1810	1840	2370
Bend Radius - xOD	8	8	8	8	8	8	8	8	8	8	8	8	8
Conductor Temperature - °C	85	85	85	85	85	85	85	85	85	85	85	85	85
Short Circuit Rating, 1second - ampere	16800	25900	210	210	350	210	350	210	350	210	350	210	350
Current Rating at 45°C - ampere	225	290	12	10	15	9	12	8	11	6.5	9	6	8
DC Resistance max @ 20°C - Ω/km	0.1540	0.1000	12.2000	12.2000	7.5600	12.2000	7.56	12.2000	7.5600	12.2000	7.5600	12.2000	7.5600
DC Resistance max @ 90°C - Ω/km	0.073	0.073	0.015	0.015	0.107	0.015	0.107	0.015	0.107	0.015	0.107	0.015	0.107
Sheath Colour	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black