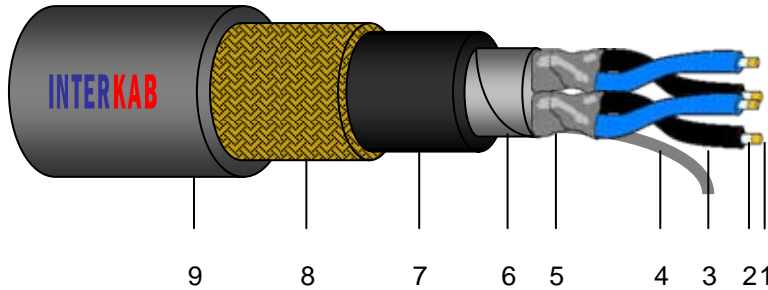


150 / 250v
Fire Resistant

Offshore Instrumentation Cables to NEK 606 Specification

BFOU(i) Pairs/Triples Armoured Cables – Individually Screened



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

Application:	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.
(1) Conductor:	Tinned Stranded Copper Conductor to IEC60228
(2) Fire Protection:	Mica Glass Tape
(3) Insulation:	(B) - EPR Complying with IEC60092-351
(4) Drain Wire:	Tinned Copper drain wire
(5) Individual Screen:	Aluminium Mylar Tape Screen, PETP-tape
(6) Collective Screen:	Aluminium Mylar Tape Screen, PETP-tape
(7) Bedding:	(F) - SHF2 dual Compound thermoset rubber - IEC60092-359 Type SHF2, PETP-tape
(8) Armour:	(O) - Tinned Copper Wire Braid to NVE FEA-M 1238.5, PETP-tape
(9) Outer Sheath:	(U) - SHF2 dual Compound thermoset 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. <small>The legend will include the manufacturers name, voltage, NEK606, number of pairs/triples and cross sectional area, IEC60331 and NEK606 designation. The standard sheath Colours are grey, blue and black but other colours are available on request.</small>
Conductor Identification:	Single Pair: Black/ Light Blue Multi-Pair: Numbered White & Black Pairs Triples: Black/ Light Blue/ Brown

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Cable	1x2x0.75	2x2x0.75	4x2x0.75	8x2x0.75	12x2x0.75	16x2x0.75	24x2x0.75	1x2x1.5	2x2x1.5	4x2x1.5	8x2x1.5	12x2x1.5
Stranding mm	7/0.37	7/0.37	7/0.37	7/0.37	7/0.37	7/0.37	7/0.37	7/0.53	7/0.53	7/0.53	7/0.53	7/0.53
Insulation Thickness mm	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Thickness of Inner Sheath mm	1.1	1.1	1.1	1.1	1.3	1.4	1.8	1.1	1.1	1.1	1.1	1.3
Diameter over Inner Sheath (min/max) mm	8.2/9.8	11.5/13.5	13.5/15.5	18.5/21.5	22.0/25.0	25.0/28.0	30.5/34.5	9.0/11.0	13.5/15.5	16.0/18.0	21.5/24.5	25.5/28.5
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	0.3	0.3
Thickness of Outer Sheath mm	1.1	1.3	1.4	1.6	1.7	1.8	2.1	1.1	1.4	1.5	1.7	1.9
Overall Diameter (min/max) mm	11.0/13.0	15.0/17.0	17.5/19.5	23.0/26.0	27.0/30.0	30.0/33.0	36.5/40.5	12.0/14.0	17.5/19.5	20.0/22.0	26.0/29.0	30.0/34.0
Gland Size	O	A	A	B	C	C	C2	O	A	B	C	C2
Weight kg/km	220	390	510	890	1250	1490	2210	250	510	690	1230	1670
Bend Radius - xOD	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
Short Circuit Rating, 1second - 250°C - A	100	100	100	100	100	100	100	100	100	100	100	100
Inductance/Resistance - mH/km	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.63	0.63	0.63	0.63	0.63
Capacitance - nF/km	110	110	110	110	110	110	110	125	125	125	125	125
DC Resistance @ 20°C - Ohms/km	24.8	24.8	24.8	24.8	24.8	24.8	24.8	12.2	12.2	12.2	12.2	12.2
Sheath Colour	Grey/Blue	Grey/Blue	Grey/Blue	Grey/Blue	Grey/Blue	Grey/Blue	Grey/Blue	Grey/Blue	Grey/Blue	Grey/Blue	Grey/Blue	Grey/Blue

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Cable	16x2x1.5	24x2x1.5	1x2x2.5	4x2x2.5	1x3x0.75	2x3x0.75	4x3x0.75	8x3x0.75	12x3x0.75	16x3x0.75	24x3x0.75	1x3x1.5
Stranding mm	7/0.53	7/0.53	-		7/0.37	7/0.37	7/0.37	7/0.37	7/0.37	7/0.37	7/0.37	7/0.53
Insulation Thickness mm	0.8	1.0	1.0	1.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Thickness of Inner Sheath mm	1.6	1.8	1.1	1.1	1.1	1.1	1.1	1.1	1.3	1.4	1.8	1.1
Diameter over Inner Sheath (min/max) mm	29.5/32.5	35.5/39.5	10.5/12.5	19.0/22.0	8.7/10.3	12.5/14.5	15.5/17.5	20.0/23.0	24.5/27.5	27.0/30.0	34.0/38.0	9.5/11.5
Diameter of Armour/Braid mm	0.3	0.4	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.2
Thickness of Outer Sheath mm	2.0	2.3	1.2	1.6	1.1	1.4	1.4	1.7	1.8	1.9	2.2	1.2
Overall Diameter (min/max) mm	34.0/38.0	41.5/46.5	13.5/15.5	23.0/26.0	11.5/13.5	16.5/18.5	18.5/21.5	24.5/27.5	29.0/33.0	31.5/35.5	39.5/44.5	12.5/14.5
Gland Size	C2	D	O	B	O	A	B	C	C	C2	D	O
Weight kg/km	2100	3020	330	950	240	440	620	1080	1540	1790	2720	300
Bend Radius - xOD	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
Short Circuit Rating, 1second - 250°C - A	100	100	100	100	100	100	100	100	100	100	100	100
Inductance/Resistance - mH/km	0.63	0.63	0.59	0.59	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.63
Capacitance - nF/KM	125	125	145	145	110	110	110	110	110	110	110	125
DC Resistance @ 20°C - Ohms/km	12.2	12.2	7.56	7.56	24.8	24.8	24.8	24.8	24.8	24.8	24.8	12.2
Sheath Colour	Grey/ Blue	Grey/ Blue	Grey/Blue	Grey/ Blue	Grey/ Blue	Grey/Blue	Grey/Blue	Grey/Blue	Grey/Blue	Grey/ Blue	Grey/Blue	Grey/ Blue

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Cable	2x3x1.5	4x3x1.5	8x3x1.5	12x3x1.5	16x3x1.5	24x3x1.5
Stranding mm	7/0.53	7/0.53	7/0.53	7/0.53	7/0.53	7/0.53
Insulation Thickness mm	0.8	0.8	0.8	0.8	0.8	0.8
Thickness of Inner Sheath mm	1.1	1.1	1.1	1.5	1.6	2.0
Diameter over Inner Sheath (min/max) mm	14.5/16.5	17.5/19.5	23.0/26.0	28.5/32.5	32.0/36.0	39.5/44.5
Diameter of Armour/Braid mm	0.3	0.3	0.3	0.3	0.4	0.4
Thickness of Outer Sheath mm	1.5	1.6	1.8	2.0	2.2	2.5
Overall Diameter (min/max) mm	18.5/20.5	21.5/24.5	27.5/30.5	33.5/37.5	37.5/42.5	46.0/51.0
Gland Size	A	B	C	C2	D	D
Weight kg/km	570	910	1440	2150	2700	3950
Bend Radius - xOD	8	8	8	8	8	8
Conductor Temperature - °C	85	85	85	85	85	85
Short Circuit Rating, 1second – 250°C - A	100	100	100	100	100	100
Inductance/ Resistance – mH/km	0.63	0.63	0.63	0.63	0.63	0.63
Capacitance – nF/KM	125	125	125	125	125	125
DC Resistance @ 20°C – Ohms/km	12.2	12.2	12.2	12.2	12.2	12.2
Sheath Colour	Grey/ Blue	Grey/ Blue	Grey/Blue	Grey/Blue	Grey/Blue	Grey/ Blue