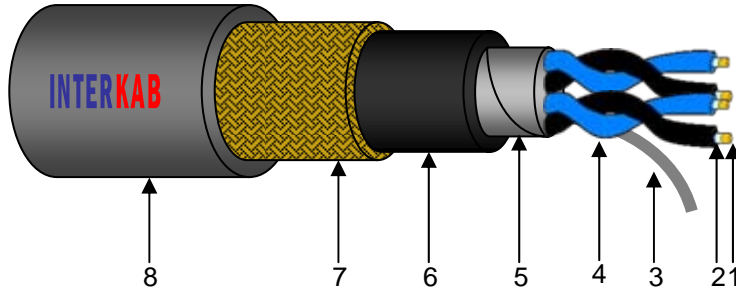


150 / 250v
Fire Resistant

Offshore Instrumentation Cables to NEK 606 Specification

BFOU(c) Pairs/Triples Armoured Cables – Collectively 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 Annealed Copper Conductor to IEC60228
(2) Fire Protection:	(B) - Mica Glass Tape
(3) Drain Wire:	Tinned Copper drain wire
(4) Insulation:	EPR Complying with IEC60092-351
Individual Screen:	Collectively Screened Only
(5) Collective Screen:	Aluminium Mylar Tape Screen, PETP-tape
(6) Bedding:	(F) SHF2 dual Compound thermoset rubber - IEC60092-359 Type SHF2, PETP-tape
(7) Armour:	(O) - Tinned Copper Wire Braid to NVE FEA-M 1238.5, PETP-tape
(8) 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 Triples: Black/ Light Blue/ Brown

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Cable	2x2x0.75	4x2x0.75	8x2x0.75	12x2x0.75	16x2x0.75	24x2x0.75	2x2x1.5	4x2x1.5	8x2x1.5	12x2x1.5	16x2x1.5	24x2x1.5
Stranding mm	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	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	1.3	1.4	1.8	1.1	1.1	1.1	1.3	1.4	1.8
Diameter over Inner Sheath (min/max) mm	11.5/13.5	13.5/15.5	22.5/25.5	21.0/24.0	22.5/25.5	28.0/31.0	13.0/15.0	15.0/17.0	21.0/24.0	24.0/27.0	26.0/29.0	32.0/36.0
Diameter of Armour/Braid mm	0.3	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	1.3	1.4	1.5	1.6	1.7	2.0	1.4	1.4	1.7	1.8	1.9	2.2
Overall Diameter (min/max) mm	15.0/17.0	17.0/19.0	22.5/25.5	25.5/28.5	27.5/30.5	33.0/37.0	16.5/18.5	18.5/21.5	25.0/26.0	28.0/32.0	30.5/34.5	37.5/42.5
Gland Size	A	A	B	C	C	C2	A	B	B	C	C2	D
Weight kg/km	350	460	780	1040	1210	1730	450	610	1030	1390	1670	2440
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	0.63	0.63	0.63	0.63	0.63	0.63
Capacitance - nF/km	100	100	100	100	100	100	110	110	110	110	110	110
DC Resistance @ 20°C - Ohms/km	24.8	24.8	24.8	24.8	24.8	4.8	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	Grey/Blue	Grey/Blue	Grey/Blue	Grey/Blue	Grey/Blue	Grey/Blue

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Cable	2x2x2.5	4x2x2.5	8x2x2.5	16x2x2.5	24x2x2.5	2x3x0.75	4x3x0.75	8x3x0.75	12x3x0.75	16x3x0.75	24x3x0.75
Stranding mm	-	-	-	-	-	7/0.37	7/0.37	7/0.37	7/0.37	7/0.37	7/0.37
Insulation Thickness mm	1.0	1.0	1.0	1.0	1.0	0.8	0.8	0.8	0.8	0.8	0.8
Thickness of Inner Sheath mm	1.1	1.1	1.1	1.6	2.0	1.1	1.1	1.1	1.3	1.4	1.8
Diameter over Inner Sheath (min/max) mm	15.5/17.5	18.0/21.0	25.0/28.0	31.5/35.5	39.0/44.0	13.0/15.0	15.5/17.5	20.0/23.0	24.0/27.0	26.0/29.0	32.0/36.0
Diameter of Armour/Braid mm	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4
Thickness of Outer Sheath mm	1.4	1.5	1.8	2.1	2.4	1.3	1.4	1.6	1.8	1.9	2.1
Overall Diameter (min/max) mm	19.5/21.5	22.0/25.0	29.0/33.0	37.5/41.5	45.5/50.5	17.0/19.0	19.0/22.0	24.5/27.5	28.5/32.5	30.5/34.5	37.5/41.5
Gland Size	B	B	C	D	D	A	B	C	C	C2	D
Weight kg/km	210	420	560	2440	3540	470	610	1020	1380	1590	2340
Bend Radius -xOD	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
Short Circuit Rating, I _{sc} second - 250°C - A	100	100	100	100	100	100	100	100	100	100	100
Inductance/Resistance - mH/km	0.59	0.59	0.59	0.59	0.59	0.67	0.67	0.67	0.67	0.67	0.67
Capacitance - nF/KM	125	125	125	125	125	100	100	100	100	100	100
DC Resistance @ 20°C - Ohms/km	7.56	7.56	7.56	7.56	7.56	24.8	24.8	24.8	24.8	24.8	24.8
Sheath Colour	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	1.3	1.6	2.0
Diameter over Inner Sheath (min/max) mm	15.0/17.0	17.5/19.5	23.0/26.0	24.0/27.0	26.0/29.0	32.0/36.0
Diameter of Armour/Braid mm	0.3	0.3	0.3	0.3	0.4	0.4
Thickness of Outer Sheath mm	1.4	1.5	1.8	1.9	2.1	2.4
Overall Diameter (min/max) mm	18.5/21.5	21.0/24.0	28.0/31.0	32.5/36.5	35.5/39.5	43.5/48.5
Gland Size	B	B	C	C2	C2	D
Weight kg/km	600	790	1350	1910	2330	3410
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	110	110	110	110	110	110
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