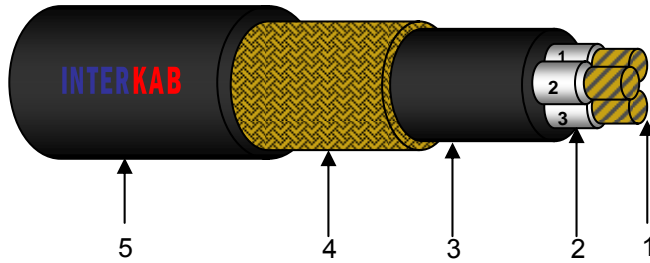


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Flame Retardant

Offshore Power & Control Cables to NEK 606 Specification

RFOU - Single & Multi-core Armoured Cables



Applicable Standards:
NEK 606 / IEC 60092-3
IEC 60092-351
IEC 60332 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
Fire Protection:	None
(2) Insulation:	(R) - EPR Complying with IEC60092-351
(3) Bedding:	(F) - SHF2 dual Compound thermoset rubber - IEC60092-359 Type SHF2, PETP-tape
(4) Armour:	(O) - Tinned Copper Wire Braid to NVE FEA-M 1238.5, PETP-tape
(5) 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.
Conductor Identification:	<p>The legend will include the manufacturers name, voltage, NEK606, number of cores and cross sectional area, IEC60332 and NEK606 designation. The standard sheath Colour is black, but other colours are available on request,</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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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	1.1	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1
Diameter over Inner Sheath (min/max) mm	9.0/11.0	10.5/12.5	12.0/14.0	14.0/16.0	16.0/18.0	18.0/20.0	19.0/22.0	21.5/24.5	23.5/26.5	26.5/29.5	28.5/32.5	9.0/11.0	9.5/11.5	11.0/13.0
Diameter of Armour/Braid mm	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.3
Thickness of Outer Sheath mm	1.2	1.2	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.8	1.9	1.2	1.2	1.3
Overall Diameter (min/max) mm	12.5/14.5	14.0/16.0	15.5/17.5	18.0/20.0	19.0/22.0	21.5/24.5	23.5/26.5	25.5/28.5	28.0/31.0	30.5/34.5	34.0/38.0	12.0/14.0	13.0/15.0	14.5/16.5
Gland Size	O	O	A	A	B	B	C	C	C	C2	C2	O	O	A
Weight kg/km	350	470	640	820	1060	1360	1680	2010	2430	3090	3790	260	300	400
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	1.160	0.734	0.529	0.391	0.270	0.195	0.154	0.126	0.100	0.076	0.061	12.200	7.560	4.700
DC Resistance max @ 50Hz - Ω/km	0.116	0.112	0.106	0.103	0.100	0.097	0.094	0.092	0.091	0.090	0.089	0.110	0.103	0.096
Sheath Colour	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black

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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	12.0/14.0	14.0/16.0	16.0/18.0	9.5/11.5	10.5/12.5	11.5/13.5	13.0/15.0	15.0/17.0	17.0/19.0	20.5/23.5	23.0/26.0	27.5/30.5	31.0/35.0	35.5/39.5
Diameter of Armour/Braid mm	0.3	0.3	0.4	0.2	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.4	0.5	0.5
Thickness of Outer Sheath mm	1.3	1.4	1.5	1.2	1.3	1.3	1.4	1.4	1.5	1.6	1.7	1.9	2.0	2.2
Overall Diameter (min/max) mm	15.5/17.5	17.5/19.5	20.0/23.0	12.5/14.5	14.0/16.0	15.0/17.0	16.5/18.5	18.5/20.5	21.0/24.0	25.0/28.0	27.5/30.5	32.0/36.0	37.0/41.0	41.0/46.0
Gland Size	A	A	B	O	O	A	A	A	B	C	C	C2	C2	D
Weight kg/km	490	640	910	290	370	460	570	740	1070	1520	1880	2630	3540	4660
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	3.110	1.840	1.160	12.200	7.560	4.700	3.110	1.840	1.160	0.734	0.529	0.391	0.270	0.195
DC Resistance max @ 50Hz - Ω/km	0.090	0.084	0.080	0.110	0.103	0.096	0.090	0.080	0.079	0.076	0.076	0.076	0.075	0.073
Sheath Colour	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black

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RFOU - Single & Multi-core 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	1.6	1.6	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.4	1.4	1.4
Diameter over Inner Sheath (min/max) mm	38.5/43.5	42.5/47.5	49.5/54.5	10.5/12.5	11.5/13.5	12.5/14.5	14.0/16.0	16.5/18.5	18.5/21.5	22.5/25.5	26.0/29.0	30.0/34.0	34.5/38.5	39.0/44.0
Diameter of Armour/Braid mm	0.6	0.6	0.5	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.4	0.5	0.5
Thickness of Outer Sheath mm	2.3	2.5	2.7	1.3	1.3	1.4	1.4	1.5	1.6	1.7	1.8	2.0	2.2	2.4
Overall Diameter (min/max) mm	45.5/50.5	51.0/57.0	59.0/66.0	14.0/16.0	15.0/17.0	16.5/18.5	18.0/20.0	20.0/23.0	23.5/26.5	27.5/30.5	30.0/34.0	35.5/39.5	40.5/45.5	45.5/50.5
Gland Size	D	E	F	O	A	A	A	B	C	C	C2	C2	D	D
Weight kg/km	5740	7450	25900	210	350	560	840	1400	2240	3500	4900	7000	9800	13300
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	0.154	0.126	0.100	12.200	7.560	4.700	3.110	1.840	1.160	0.734	0.529	0.391	0.270	0.195
DC Resistance max @ 50Hz - Ω/km	0.072	0.072	0.072	0.110	0.103	0.096	0.090	0.084	0.080	0.079	0.076	0.076	0.075	0.073
Sheath Colour	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black

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Cable	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	-	-	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	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	1.1	1.2	1.2	1.2	1.2	1.2	1.2	-
Diameter over Inner Sheath (min/max) mm	52.5/57.5	11.5/13.5	12.5/14.5	13.5/15.5	17.0/19.0	18.5/20.5	19.5/22.5	21.5/24.5	23.5/26.5	26.0/29.0	26.5/29.5	29.5/33.5
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	-
Thickness of Outer Sheath mm	2.8	1.3	1.3	1.4	1.5	1.6	1.6	1.7	1.8	1.9	1.9	-
Overall Diameter (min/max) mm	63.0/70.0	15.0/17.0	16.0/18.0	17.5/19.5	20.5/23.5	22.5/25.5	24.0/27.0	26.0/29.0	28.0/32.0	30.5/34.5	31.0/35.0	34.5/38.5
Gland Size	F	A	A	O	B	B	C	C	C	C2	C2	C2
Weight kg/km	25900	210	210	610	720	910	990	1260	1320	1680	1670	2190
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 - ampere	25900	210	210	350	210	350	210	350	210	350	210	350
Current Rating at 45°C - ampere	290	12	10	15	9	12	8	11	6.5	9	6	8
DC Resistance max @ 20°C - Ω/km	0.100	12.200	12.200	7.560	12.200	7.560	12.200	7.560	12.200	7.560	12.200	7.560
DC Resistance max @ 50Hz - Ω/km	0.072	0.110	0.110	0.103	0.110	0.103	0.110	0.103	0.110	0.103	0.110	0.103
Sheath Colour	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black