



PRODUCT DESCRIPTION

3.6/6KV, 6/10KV, 8.7/15KV RFOU CABLE
MARINE/OFFSHORE POWER CABLE
90°C TEMPERATURE RATING
LOW SMOKE HALOGEN-FREE
MUD RESISTANT
FLAME RETARDANT
ABS, DNV-GL, LLOYD, RINA APPROVED

PRODUCT CONSTRUCTION

1. CONDUCTOR

STRANDED TINNED ANNEALED COPPER WIRE

2. CONDUCTOR SCREEN

SEMI-CONDUCTING LAYER (TAPE/COMPOUND)

3. INSULATION

HALOGEN FREE ETHYLENE PROPYLENE RUBBER (EPR)

4. INSULATION SCREEN

SEMI-CONDUCTING LAYER (TAPE/COMPOUND)
TINNED ANNEALED COPPER WIRE BRAID

5. INNER COVERING/BEDDING

FLAME RETARDANT HALOGEN FREE COMPOUND

6. ARMOR

TINNED COPPER WIRE BRAID
BRONZE WIRE/GALVANIZED STEEL WIRE OPTIONS AVAILABLE

7. SHEATH

SHF 2, RED COLOR
SFH MUD OPTIONS AVAILABLE

LSZH CABLE



STANDARDS

- DESIGN GUIDE: NEK 606, IEC 60092-353
- CONDUCTOR: IEC 60228 CLASS 2
- INSULATION & SHEATH: IEC 60092-360
- FLAME RETARDANT: IEC 60332-1/3 CAT.A
- MUD RESISTANT: NEK 606
- HALOGEN FREE: IEC 60754-1, ≤0.5%
- LOW SMOKE: IEC 61034, >60%
- COLD BEND/IMPACT:
CSA 22.2 NO. 03 (-40°C/-35°C)
- ARCTIC OPTIONS AVAILABLE:
CSA 22.2 NO. 03 (-65°C/-65°C)

RFOU 3.6/6KV, HALOGEN-FREE FIRE RESISTANT LSZH CABLE

3.6/6KV RFOU, SINGLE CONDUCTOR

PART NO.	CONDUCTOR		NOMINAL OD		WEIGHT	
	# OF CORES	SIZE (MM ²)	INCHES	MM	LBS/MFT	KG/KM
NEK-RFOU1C10-6KV	1	10	0.83	21.00	497	740
NEK-RFOU1C16-6KV	1	16	0.87	22.20	571	850
NEK-RFOU1C25-6KV	1	25	0.93	23.50	672	1000
NEK-RFOU1C35-6KV	1	35	0.98	24.90	779	1160
NEK-RFOU1C50-6KV	1	50	1.03	26.20	900	1340
NEK-RFOU1C70-6KV	1	70	1.11	28.20	1095	1630
NEK-RFOU1C95-6KV	1	95	1.19	30.30	1330	1980
NEK-RFOU1C120-6KV	1	120	1.26	31.90	1539	2290
NEK-RFOU1C150-6KV	1	150	1.34	34.10	1801	2680
NEK-RFOU1C185-6KV	1	185	1.42	36.10	2103	3130
NEK-RFOU1C240-6KV	1	240	1.56	39.70	2648	3940
NEK-RFOU1C300-6KV	1	300	1.70	43.10	3225	4800
NEK-RFOU1C400-6KV	1	400	1.88	47.70	4065	6050
NEK-RFOU1C500-6KV	1	500	2.01	51.00	4764	7090
NEK-RFOU1C630-6KV	1	630	2.19	55.60	5920	8810

DATA SUBJECT TO NORMAL MANUFACTURING TOLERANCES
AMPACITY BASED ON 45°C AMBIENT TEMPERATURE: 90°C BASED ON IEC 60092-352 TABLE B.4

3.6/6KV RFOU, THREE CONDUCTOR

PART NO.	CONDUCTOR		NOMINAL OD		WEIGHT	
	# OF CORES	SIZE (MM ²)	INCHES	MM	LBS/MFT	KG/KM
NEK-RFOU3C10-6KV	3	10	1.54	39.10	1586	2360
NEK-RFOU3C16-6KV	3	16	1.63	41.50	1841	2740
NEK-RFOU3C25-6KV	3	25	1.75	44.50	2204	3280
NEK-RFOU3C35-6KV	3	35	1.88	47.70	2594	3860
NEK-RFOU3C50-6KV	3	50	2.00	50.70	3024	4500
NEK-RFOU3C70-6KV	3	70	2.16	54.90	3709	5520
NEK-RFOU3C95-6KV	3	95	2.35	59.60	4549	6770
NEK-RFOU3C120-6KV	3	120	2.50	63.50	5315	7910
NEK-RFOU3C150-6KV	3	150	2.64	67.10	6101	9080
NEK-RFOU3C185-6KV	3	185	2.81	71.40	7143	10630
NEK-RFOU3C240-6KV	3	240	3.09	78.50	8863	13190

DATA SUBJECT TO NORMAL MANUFACTURING TOLERANCES
AMPACITY BASED ON 45°C AMBIENT TEMPERATURE: 90°C BASED ON IEC 60092-352 TABLE B.4

3.6/6KV RFOU, THREE CONDUCTOR + EARTH

PART NO.	CONDUCTOR		EARTH	NOMINAL OD		WEIGHT	
	# OF CORES	SIZE (MM ²)	SIZE (MM ²)	INCHES	MM	LBS/MFT	KG/KM
NEK-RFOU3C25E-6KV	3	25	1E x 16	1.75	44.50	2325	3460
NEK-RFOU3C35E-6KV	3	35	1E x 25	1.90	48.30	2809	4180
NEK-RFOU3C50E-6KV	3	50	1E x 25	2.01	51.00	3225	4800
NEK-RFOU3C70E-6KV	3	70	1E x 35	2.18	55.40	3985	5930
NEK-RFOU3C95E-6KV	3	95	1E x 50	2.39	60.60	4939	7350
NEK-RFOU3C120E-6KV	3	120	1E x 70	2.55	64.80	5853	8710
NEK-RFOU3C150E-6KV	3	150	1E x 95	2.72	69.20	6868	10220
NEK-RFOU3C185E-6KV	3	185	1E x 95	2.90	73.60	7949	11830
NEK-RFOU3C240E-6KV	3	240	1E x 120	3.16	80.30	9770	14540

DATA SUBJECT TO NORMAL MANUFACTURING TOLERANCES
AMPACITY BASED ON 45°C AMBIENT TEMPERATURE: 90°C BASED ON IEC 60092-352 TABLE B.4

LSZH CABLE

RFOU 6/10KV, HALOGEN-FREE FIRE RESISTANT LSZH CABLE

6/10KV RFOU, SINGLE CONDUCTOR

PART NO.	CONDUCTOR		NOMINAL OD		WEIGHT	
	# OF CORES	SIZE (MM ²)	INCHES	MM	LBS/MFT	KG/KM
NEK-RFOU1C16-10KV	1	16	0.95	24.00	645	960
NEK-RFOU1C25-10KV	1	25	1.00	25.50	759	1130
NEK-RFOU1C35-10KV	1	35	1.05	26.70	860	1280
NEK-RFOU1C50-10KV	1	50	1.11	28.20	995	1480
NEK-RFOU1C70-10KV	1	70	1.18	30.00	1189	1770
NEK-RFOU1C95-10KV	1	95	1.26	32.10	1431	2130
NEK-RFOU1C120-10KV	1	120	1.35	34.30	1680	2500
NEK-RFOU1C150-10KV	1	150	1.42	36.10	1922	2860
NEK-RFOU1C185-10KV	1	185	1.52	38.60	2291	3410
NEK-RFOU1C240-10KV	1	240	1.65	41.90	2836	4220
NEK-RFOU1C300-10KV	1	300	1.75	44.50	3333	4960
NEK-RFOU1C400-10KV	1	400	1.91	48.50	4126	6140
NEK-RFOU1C500-10KV	1	500	2.02	51.40	4798	7140
NEK-RFOU1C630-10KV	1	630	2.21	56.00	5960	8870

DATA SUBJECT TO NORMAL MANUFACTURING TOLERANCES
AMPACITY BASED ON 45°C AMBIENT TEMPERATURE: 90°C BASED ON IEC 60092-352 TABLE B.4

6/10KV RFOU, THREE CONDUCTOR

PART NO.	CONDUCTOR		NOMINAL OD		WEIGHT	
	# OF CORES	SIZE (MM ²)	INCHES	MM	LBS/MFT	KG/KM
NEK-RFOU3C16-10KV	3	16	1.81	46.00	2170	3230
NEK-RFOU3C25-10KV	3	25	1.94	49.20	2567	3820
NEK-RFOU3C35-10KV	3	35	2.04	51.90	2937	4370
NEK-RFOU3C50-10KV	3	50	2.16	54.90	3387	5040
NEK-RFOU3C70-10KV	3	70	2.34	59.40	4126	6140
NEK-RFOU3C95-10KV	3	95	2.52	63.90	4973	7400
NEK-RFOU3C120-10KV	3	120	2.66	67.60	5739	8540
NEK-RFOU3C150-10KV	3	150	2.81	71.40	6572	9780
NEK-RFOU3C185-10KV	3	185	2.99	75.90	7667	11410
NEK-RFOU3C240-10KV	3	240	3.28	83.20	9569	14240

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6/10KV RFOU, THREE CONDUCTOR + EARTH

PART NO.	CONDUCTOR		EARTH	NOMINAL OD		WEIGHT	
	# OF CORES	SIZE (MM ²)	SIZE (MM ²)	INCHES	MM	LBS/MFT	KG/KM
NEK-RFOU3C25E-10KV	3	25	1E x 16	1.94	49.20	2701	4020
NEK-RFOU3C35E-10KV	3	35	1E x 25	2.06	52.20	3145	4680
NEK-RFOU3C50E-10KV	3	50	1E x 25	2.16	54.90	3575	5320
NEK-RFOU3C70E-10KV	3	70	1E x 35	2.34	59.50	4381	6520
NEK-RFOU3C95E-10KV	3	95	1E x 50	2.54	64.40	5335	7940
NEK-RFOU3C120E-10KV	3	120	1E x 70	2.70	68.60	6276	9340
NEK-RFOU3C150E-10KV	3	150	1E x 95	2.90	73.60	7385	10990
NEK-RFOU3C185E-10KV	3	185	1E x 95	3.04	77.30	8413	12520
NEK-RFOU3C240E-10KV	3	240	1E x 120	3.33	84.60	10456	15560

DATA SUBJECT TO NORMAL MANUFACTURING TOLERANCES
AMPACITY BASED ON 45°C AMBIENT TEMPERATURE: 90°C BASED ON IEC 60092-352 TABLE B.4

LSZH CABLE

RFOU 8.7/15KV, HALOGEN-FREE FIRE RESISTANT LSZH CABLE

8.7/15KV RFOU, SINGLE CONDUCTOR

PART NO.	CONDUCTOR		NOMINAL OD		WEIGHT	
	# OF CORES	SIZE (MM2)	INCHES	MM	LBS/MFT	KG/KM
NEK-RFOU1C25-15KV	1	25	1.10	27.90	874	1300
NEK-RFOU1C35-15KV	1	35	1.15	29.10	981	1460
NEK-RFOU1C50-15KV	1	50	1.21	30.60	1115	1660
NEK-RFOU1C70-15KV	1	70	1.28	32.40	1317	1960
NEK-RFOU1C95-15KV	1	95	1.37	34.90	1593	2370
NEK-RFOU1C120-15KV	1	120	1.47	37.20	1888	2810
NEK-RFOU1C150-15KV	1	150	1.54	39.00	2137	3180
NEK-RFOU1C185-15KV	1	185	1.61	40.80	2439	3630
NEK-RFOU1C240-15KV	1	240	1.74	44.30	3017	4490
NEK-RFOU1C300-15KV	1	300	1.86	47.30	3555	5290
NEK-RFOU1C400-15KV	1	400	2.00	50.90	4334	6450
NEK-RFOU1C500-15KV	1	500	2.12	53.80	5013	7460
NEK-RFOU1C630-15KV	1	630	2.32	58.80	6229	9270

DATA SUBJECT TO NORMAL MANUFACTURING TOLERANCES
 AMPACITY BASED ON 45°C AMBIENT TEMPERATURE: 90°C BASED ON IEC 60092-352 TABLE B.4

8.7/15KV RFOU, THREE CONDUCTOR

PART NO.	CONDUCTOR		NOMINAL OD		WEIGHT	
	# OF CORES	SIZE (MM2)	INCHES	MM	LBS/MFT	KG/KM
NEK-RFOU3C25-15KV	3	25	2.13	54.10	2977	4430
NEK-RFOU3C35-15KV	3	35	2.26	57.50	3434	5110
NEK-RFOU3C50-15KV	3	50	2.38	60.50	3904	5810
NEK-RFOU3C70-15KV	3	70	2.54	64.60	4637	6900
NEK-RFOU3C95-15KV	3	95	2.72	69.10	5517	8210
NEK-RFOU3C120-15KV	3	120	2.86	72.70	6303	9380
NEK-RFOU3C150-15KV	3	150	3.03	77.00	7224	10750
NEK-RFOU3C185-15KV	3	185	3.19	81.00	8285	12330
NEK-RFOU3C240-15KV	3	240	3.48	88.30	10254	15260

DATA SUBJECT TO NORMAL MANUFACTURING TOLERANCES
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8.7/15KV RFOU, THREE CONDUCTOR + EARTH

PART NO.	CONDUCTOR		EARTH	NOMINAL OD		WEIGHT	
	# OF CORES	SIZE (MM2)	SIZE (MM2)	INCHES	MM	LBS/MFT	KG/KM
NEK-RFOU3C25E-15KV	3	25	1E x 16	2.13	54.10	3138	4670
NEK-RFOU3C35E-15KV	3	35	1E x 25	2.26	57.50	3642	5420
NEK-RFOU3C50E-15KV	3	50	1E x 25	2.38	60.50	4126	6140
NEK-RFOU3C70E-15KV	3	70	1E x 35	2.54	64.60	4919	7320
NEK-RFOU3C95E-15KV	3	95	1E x 50	2.72	69.10	5866	8730
NEK-RFOU3C120E-15KV	3	120	1E x 70	2.90	73.70	6888	10250
NEK-RFOU3C150E-15KV	3	150	1E x 95	3.07	78.00	7949	11830
NEK-RFOU3C185E-15KV	3	185	1E x 95	3.22	81.90	9025	13430
NEK-RFOU3C240E-15KV	3	240	1E x 120	3.51	89.10	11114	16540

DATA SUBJECT TO NORMAL MANUFACTURING TOLERANCES
 AMPACITY BASED ON 45°C AMBIENT TEMPERATURE: 90°C BASED ON IEC 60092-352 TABLE B.4

LSZH CABLE