

## NEK606 RFOU POWER & INSTRUMENTATION MARINE CABLE



### APPLICATION

RFOU flame retardant, halogen free power and instrumentation marine cables for fixed installation. Suitable for use in all conditions in a marine environment such as muddy, dry, wet and oily conditions meeting the requirements of NEK 606.

### CABLE STANDARDS

IEC 60228 class 2  
IEC 60092-353  
IEC60754-1, 2  
IEC60332-3/A  
IEC61034-1, 2  
Mud Resistant NEK606

### CONSTRUCTION

**Conductor:** Copper Conductor  
**Insulation:** EPR  
**Bedding:** Halogen Free Mud Resistant Bedding  
**Armouring:** Tinned copper wire braid  
**Sheath:** Mud resistant sheath  
**Sheath Colour:** ■ Black

### CHARACTERISTICS

**Voltage Rating:** Power Cable 600/1000 Volts  
\*Instrumentation Cable 150-250 Volts  
**Temperature Limits:** -40°C (fixed installation) to +90°C  
**Minimum Bending Radius:** As per cable manufacturer datasheet

### CORE IDENTIFICATION

**2 Core:** ■ Brown ■ Blue  
**3 Core:** ■ Brown ■ Blue ■ Black  
**4 Core:** ■ Brown ■ Black ■ Grey ■ Blue  
**5 Core & above:** □ White numbered

## NEK606 RFOU MARINE POWER CABLE - DIMENSIONS

CCC CODE	CONDUCTOR SIZE (MM <sup>2</sup> )	STRANDING (MM)	NO. OF CORES	WEIGHT	OVERALL DIAMETER
RFOU2X1/5	1.5	7/0.53	2	317	14.4
RFOU3X1/5	1.5	7/0.53	3	349	15
RFOU4X1/5	1.5	7/0.53	4	397	15.9
RFOU7X1/5	1.5	7/0.53	7	370	18.2
RFOU12X1/5	1.5	7/0.53	12	545	23.6
RFOU2X2/5	2.5	7/0.67	2	373	15.5
RFOU3X2/5	2.5	7/0.67	3	417	16.1
RFOU4X2/5	2.5	7/0.67	4	479	17.1
RFOU7X2/5	2.5	7/0.67	7	657	19.9
RFOU12X2/5	2.5	7/0.67	12	1115	25.5
RFOU2X4	4	7/0.85	2	460	17.1
RFOU3X4	4	7/0.85	3	521	17.8
RFOU4X4	4	7/0.85	4	616	19
RFOU2X6	6	7/1.04	2	546	18.3
RFOU3X6	6	7/1.04	3	627	19.1
RFOU4X6	6	7/1.04	4	616	20.9
RFOU2X10	10	7/1.35	2	724	20.2
RFOU3X10	10	7/1.35	3	857	21.1
RFOU4X1	10	7/1.35	4	1009	22.5
RFOU2X16	16	7/1.70	2	957	22.7
RFOU3X16	16	7/1.70	3	1148	23.6
RFOU4X16	16	7/1.70	4	1370	25.6
RFOU3X25	25	19/1.35	3	1609	27.6
RFOU4X25	25	19/1.35	4	1770	27.9
RFOU3X35	35	19/1.53	3	2079	30.9
RFOU4X35	35	19/1.53	4	2271	30.8

## NEK606 RFOU MARINE INSTRUMENTATION CABLE – DIMENSIONS

CCC CODE	CONDUCTOR SIZE (MM <sup>2</sup> )	STRANDING (MM)	NO. OF CORES	WEIGHT (KG/KM)	OVERALL DIAMETER
*RFOU1X2X/75GY	0.75	24/0.20	1 Pair	206	11.4
*RFOU1X2X0.75BU	0.75	24/0.20	1 Pair	206	11.4
*RFOUC2X2X/75GY	0.75	24/0.20	2 Pair	413	17.1
*RFOUC2X2X/75BU	0.75	24/0.2	2 Pair	413	17.1
*RFOUC4X2X/75GY	0.75	24/0.20	4 Pair	340	16.8
*RFOU1X3X/75GY	0.75	24/0.20	1 Triple	223	11.8
*RFOU1X2X1/5GY	1.5	7/0.53	1 Pair	248	12.3
*RFOUC2X2X1/5GY	1.5	7/0.53	2 Pair	501	18.7
*RFOU1X3X1/5GY	1.5	7/0.53	1 Triple	273	12.8 0
*RFOU4X2X1/5GY	1.5	7/0.53	4 Pair	610	22.6
*RFOU8X2X1/5GY	1.5	7/0.53	8 Pair	1140	32.8
*RFOU12X2X1/5GY	1.5	7/0.53	12 Pair	1445	35

## NEK606 RFOU MARINE CABLE – ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA (MM <sup>2</sup> )	CONTINUOUS CURRENT RATING				MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C
	SINGLE CORE	2 CORE	3 AND 4 CORE	5 CORE	CLASS 2 COPPER CONDUCTOR
0.75	14	11	9	8	24.8
1	18	15	13	11	18.2
1.5	23	20	16	13	12.2
2.5	30	26	21	18	7.56
4	40	34	28	23	4.7
6	52	44	36	30	3.11
10	72	61	50	42	1.84
16	96	82	67	56	1.16
25	127	108	89	74	0.734
35	157	133	110	92	0.529

THE ABOVE IS IN ACCORDANCE WITH 18TH EDITION OF IET WIRING REGULATIONS

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