

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

NEK606 RFOU MARINE POWER CABLE - DIMENSIONS

| CCC CODE | CONDUCTOR SIZE (MM ²) | 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 ²) | 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 ²) | 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

THE INFORMATION CONTAINED WITHIN THIS DATASHEET IS FOR GUIDANCE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE OR LIABILITY. WE BELIEVE THE INFORMATION IS CORRECT AT THE TIME OF PUBLICATION. PLEASE NOTE WHEN SELECTING CABLE ACCESSORIES THAT ACTUAL CABLE DIMENSIONS MAY VARY DUE TO MANUFACTURING TOLERANCES.