

# 250V RFOU(C) [S102] (Multi pairs, 1.5 2.5)

Contact  
Nexans Offshore Cable  
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## Application

- Instrument circuit up to 250V, instrument safe systems.
- Fixed installation for instrument, communication, control and alarm systems in both explosion risk and safe areas, general purposes.
- Maximum operating conductor temperature 90°C

## DESCRIPTION

### Construction Details

- Conductor : Circular tinned stranded copper as per IEC 60228, Class 2
- Insulation : Halogen Free Ethylene Propylene Rubber
- Pair twisting : Two insulated cores twisted together with suitable lay length
- Cabling (with filler)
- Collective screening : Wrapped by copper or aluminium backed polyester tape with tinned copper drain wire
- Inner covering : Halogen free compound
- Armour : Tinned copper wire braid as per IEC 60092-376
  - RFCU (option) : Galvanized steel wire braid as per IEC 60092-376
- Outer sheath : Halogen free thermosetting compound as per IEC 60092-360, SHF2 or SHF2 Oil & Mud

### Standard Applied

- Design guideline : IEC 60092-376 & NEK 606-2016
- Material
  - Insulation : EPR, IEC 60092-360
  - Sheath : SHF2, IEC 60092-360
- Flame retardant : IEC 60332-3-22, Cat.A
- Halogen free properties : IEC 60754-1,2 & IEC 60684-2
- Low smoke properties : IEC 61034-1,2
- Sunlight resistance : UL 1581
- Cold properties (option) : CSA C22.2 No.03 (Bending : -40C, Impact : -35C)
- Oil/Mud resistance (option) : NEK 606-2016 (Category a, b, c, d)

### Identification of color

- Insulation
  - 1Pair : Black, Light Blue
  - 2Pair and above : Numbering on Black & Light Blue insulation coreNote) Any other colors purchaser required
- Outer sheath : Grey (or Light blue for I.S. cable)  
Note) Any other colors purchaser required



## STANDARDS

**International** IEC 60092-360;  
IEC 60092-376;  
IEC 60332-3 Cat.A;  
IEC 60684-2; IEC 60754-1;  
IEC 60754-2; IEC 61034

**National** CSA C22.2 N° 03-01;  
NEK 606; UL 1581



Flame retardant  
IEC 60332-3 Cat. A



Weather resistance  
Yes



Chemical resistance  
Good



Smoke density  
IEC 61034



Gases corrosivity  
IEC 60754-1, IEC  
60754-2



Gases toxicity  
No toxicity to IEC  
60754-1



Oil resistance  
Yes

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

Version Sang-Hwan.KIM Generated 8/27/18 www.nexans.co.kr Page 1 / 2

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**Type approval**  
- ABS, BV, DNV, LR

**Marking**  
NEXANS KUKDONG S102 RFOU(C) 250V 7PRx1.5 SQMM IEC 60332-3 A year length

## CHARACTERISTICS

### Construction characteristics

Conductor material	Tinned annealed copper
Conductor shape	Circular stranded (RM)
Insulation	EPR
Armour type	Tinned copper braid

### Usage characteristics

Flame retardant	IEC 60332-3 Cat. A
Weather resistance	Yes
Chemical resistance	Good
Smoke density	IEC 61034
Gases corrosivity	IEC 60754-1, IEC 60754-2
Gases toxicity	No toxicity to IEC 60754-1
Mud resistance	NEK606
Standard	NEK
Oil resistance	Yes



Flame retardant  
IEC 60332-3 Cat. A



Weather resistance  
Yes



Chemical resistance  
Good



Smoke density  
IEC 61034



Gases corrosivity  
IEC 60754-1, IEC 60754-2



Gases toxicity  
No toxicity to IEC 60754-1



Oil resistance  
Yes

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