

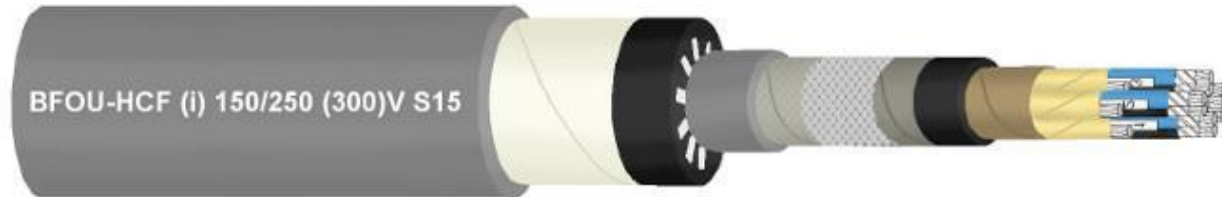
## BFOU-HCF (i) 150/250 (300)V

MGT/EPR/EPR/TCWB/EVA/HCF/SHF1

Hydro Carbon Fire resistant, flame retardant halogen-free instrumentation cable

## NEK 606 Code S15

1100°C / 2000°F / 200 kW/m<sup>2</sup>



### Application

Fixed installation for instrumentation, communication, control and alarm systems in both EX- and safe areas, emergency and critical systems where requirement for hydrocarbon fire resistance is vital.

### Construction

<b>Conductor</b>	: Tinned stranded circular copper, IEC 60228 class 2
<b>Insulation</b>	: Mica-tape + EP-rubber, IEC 60092-360 (EPR)
<b>Pair / Triple / Quad twisting</b>	: Color coded cores twisted together. - Pairs/Triples are screened by copper backed polyester tape with tinned copper drain wire. - Each pair/triple is wrapped with polyester tape to prevent electrical contact with adjacent pairs/triples. - Pairs/triples are identified by numbered tape or by numbers printed directly on the insulated conductors.
<b>Inner covering</b>	: Flame retardant and halogen-free thermoplastic compound
<b>Tape over bedding</b>	: PET tape
<b>Armour/screen</b>	: Tinned copper wire braid
<b>Tape over armour/screen</b>	: PET tape
<b>Outer sheath</b>	: Flame retardant, halogen-free and mud resistant thermoset compound, SHF2 (IEC60092-360)
<b>HCF protection</b>	: Extruded heatblock compound
<b>Tape</b>	: Lapped glassfibre tape
<b>Overall sheath</b>	: Flame retardant, halogen-free thermoplastic compound, SHF1 (IEC 60092-360)
<b>Marking text</b>	: E.g. "meter" "year" "manufacturer " BFOU-HCF (i) 250V S15 4 PAIR 1,5 mm2 HCF 1100/30 FLEX - FLAME IEC 60331-21, IEC 60332-3-22 60331-21, IEC 60332-3-22

### Outer Sheath Colours

**Available colours** : Grey, Blue or Black

**T** : +31 (0)168 468 100

**E** : [sales@incore-cables.com](mailto:sales@incore-cables.com)

**I** : [www.incore-cables.com](http://www.incore-cables.com)

# BFOU-HCF (i) 150/250 (300)V

## Core Identification

Pair : black, light blue  
 Triple : black, light blue, brown

## Installation recommendations

Min. Bending Radius during Installation : 20 xD  
 Min. Bending Radius Fix Installed : 12 xD  
 Max. Operating Temperature : 90°C  
 Minimum installation : -10°C

## Standards applied

IEC 60092-376 (2003-05) Design  
 IEC 60332-1-2 Flame Retardant  
 IEC 60332-3-22 Flame Retardant  
 IEC 60331-1, -2, -21 Fire Resistant  
 EN 1363-2 / ISO 834 HC Fire resistance  
 IEC 60754-1,2 Halogen Free  
 IEC 61034-1,2 Low Smoke

## Range and Dimensions

Article Code	Type mm <sup>2</sup>	Diameter over bedding mm	Thickness of armour wires mm	Diameter sheath mm	Diameter Overall incl. HCF protection mm	Weight of Cable Approx. (Kg/Km)	Max. pulling tension (N)
N29B01P.75BNNGR1	1 pair 0.75	7.5 ± 0.5	0.2	10.5 ± 0.8	37.0 ± 1.5	1500	75
N29B01P.75BNNBL1	1 pair 0.75	7.5 ± 0.5	0.2	10.5 ± 0.8	37.0 ± 1.5	1500	75
N29B01T.75BXXBL1	1 triple 0.75	8.0 ± 0.5	0.2	11.0 ± 0.8	37.5 ± 1.5	1640	112.5
N29B01P1.5BNNGR1	1 pair 1.50	9.0 ± 0.5	0.2	12.0 ± 0.8	38.5 ± 1.5	1880	150
N29B01P1.5BNNBL1	1 pair 1.50	9.0 ± 0.5	0.2	12.0 ± 0.8	38.5 ± 1.5	1880	150
N29B01P1.5BNNBK1	1 pair 1.50	9.0 ± 0.5	0.2	12.0 ± 0.8	38.5 ± 1.5	1880	150
N29B02P1.5BNNGR1	2 pair 1.50	13.0 ± 0.8	0.3	17.0 ± 0.8	44.0 ± 2.0	2360	300
N29B04P1.5BNNGR1	4 pair 1.50	15.5 ± 0.8	0.3	19.5 ± 0.8	47.0 ± 2.0	2730	600
N29B05P1.5BNNGR1	5 pair 1.50	17.0 ± 0.8	0.3	21.0 ± 1.0	48.5 ± 2.0	2950	750
N29B08P1.5BNNGR1	8 pair 1.50	21.0 ± 1.0	0.3	25.5 ± 1.0	53.0 ± 2.5	3570	1200
N29B10P1.5BNNGR1	10 pair 1.50	24.0 ± 1.0	0.3	29.0 ± 1.0	57.0 ± 2.5	-	1500
N29B12P1.5BNNGR1	12 pair 1.50	25.0 ± 1.0	0.3	30.0 ± 1.5	63.0 ± 2.0	5060	1800
N29B01T1.5BXXGR1	1 triple 1.50	9.5 ± 0.5	0.2	12.5 ± 0.8	39.5 ± 1.5	1870	225
N29B12T1.5BXXGR1	12 triple 1.50	28.5 ± 1.0	0.3	33.5 ± 1.5	66.0 ± 3.0	5770	2700
N29B01P2.5BNNGR1	1 pair 2.50	9.5 ± 0.5	0.2	13.0 ± 0.8	39.5 ± 1.5	1900	250

\* Cable color is stated in article code → For example - N29B01P.75BNNGR1 GR = Grey

## Electrical value instrumentation cables

Type	Capacitance, approx. (nF/km)	Inductance, approx. (mH/km)	Resistance at 20°C, max. (Ohm/km)	L/R ratio, (microH/Ohm)
Shielded pair 0,75 mm <sup>2</sup>	110	0,67	26,3	12,7
Shielded triple 0,75 mm <sup>2</sup>	110	0,67	26,3	12,7
Shielded pair 1,5 mm <sup>2</sup>	110	0,63	12,9	24,4
Shielded triple 1,5 mm <sup>2</sup>	110	0,63	12,9	24,4
Shielded pair 2,5 mm <sup>2</sup>	125	0,59	8,02	36,8
Shielded triple 2,5 mm <sup>2</sup>	125	0,59	8,02	36,8

### NOTICE

Incore Cables has endeavored to ensure the accuracy of the data in this publication, however we cannot be liable for the consequences of errors or omissions. All data is subject to change without notice. The installer and/or user assumes all liability for the consequences of the installation and/or use of any of our products in contravention of any applicable law, regulation or code.

T : +31 (0)168 468 100

E : sales@incore-cables.com

I : www.incore-cables.com

