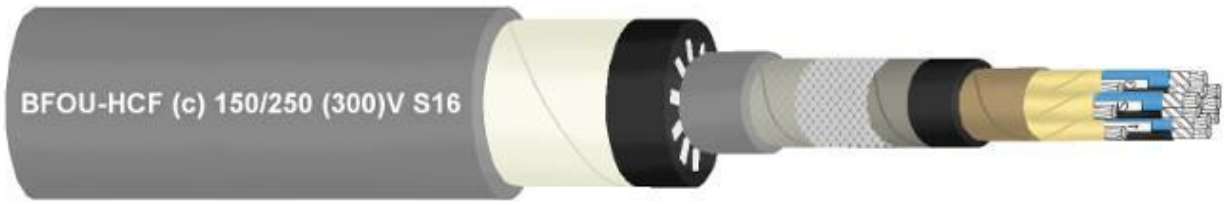
# BFOU-HCF (c) 150/250 (300)V

# NEK 606 Code S16

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

**1100˚C / 2000˚F / 200 kW/m²**

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




## 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

| | |
|---|---|
| **Conductor** | : Tinned stranded circular copper, IEC 60228 class 2 |
| **Insulation** | : Mica-tape + EP-rubber, IEC 60092-360 (EPR) |
| **Pair / Triple / Quad twisting** | : Color coded cores twisted together.<br>- Pairs/Triples are screened by copper backed polyester tape with tinned copper drain wire.<br>- Each pair/triple is wrapped with polyester tape to prevent electrical contact with adjacent pairs/triples.<br>- Pairs/triples are identified by numbered tape or by numbers printed directly on the insulated conductors. |
| **Inner covering** | : Flame retardant and halogen-free thermoplastic compound |
| **Tape over bedding** | : PET tape |
| **Armour/screen** | : Tinned copper wire braid |
| **Tape over armour/screen** | : PET tape |
| **Outer sheath** | : Flame retardant, halogen-free and mud resistant thermoset compound, SHF2 (IEC60092-360) |
| **HCF protection** | : Extruded heatblock compound |
| **Tape** | : Lapped glassfibre tape |
| **Overall sheath** | : Flame retardant, halogen-free thermoplastic compound, SHF1 (IEC 60092-360) |
| **Marking text** | : E.g. "meter" "year" “manufacturer “ BFOU-HCF (c) 250V S16 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**
**I : www.incore-cables.com**

incore cables®
your way to energy

# BFOU-HCF (c) 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 mm² | 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) |
|---|---|---|---|---|---|---|---|
| N28B08P.75BNNBK1 | 8 pair 0.75 | 16.5 ± 0.8 | 0.3 | 20.5 ± 1.0 | 40.5 ± 3.0 | 2790 | 600 |
| N28B02P1.5BNNBL1 | 2 pair 1.50 | 13.0 ± 0.8 | 0.3 | 16.5 ± 0.8 | 44.0 ± 2.0 | 2310 | 300 |
| N28B04P1.5BNNGR1 | 4 pair 1.50 | 15.0 ± 0.8 | 0.3 | 19.0 ± 0.8 | 46.0 ± 2.0 | 260 | 600 |
| N28B08P1.5BNNBK1 | 8 pair 1.50 | 20.0 ± 1.0 | 0.3 | 24.5 ± 1.0 | 52.5 ± 2.5 | 3410 | 1200 |
| N28B12P1.5BNNGR1 | 12 pair 1.50 | 24.0 ± 1.0 | 0.3 | 28.5 ± 1.0 | 56.5 ± 2.5 | 4030 | 1800 |
| N28B24P1.5BNNBK1 | 24 pair 1.50 | 33.5 ± 1.5 | 0.4 | 39.5 ± 1.5 | 72.5 ± 3.5 | 9630 | 3600 |

* Cable color is stated in article code → For example
- N28B04P1.5BNN**GR**1 GR = Grey
- N28B02P1.5BNN**BL**1 BL = Blue
- N28B08P.75BNN**BK**1 BK = Black

## 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 mm² | 100 | 0,67 | 26,3 | 12,7 |
| Shielded pair 0,50 mm² | 110 | 0,63 | 12,9 | 14,4 |

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**

incore cables®
your way to energy