

# BFOU-HCF(c) 250V S16 / 1100°C / 30 minutes

HydroCarbon Fire resistant, flame retardant halogen-free instrumentation cable.

## BFOU-HCF(c) 250V

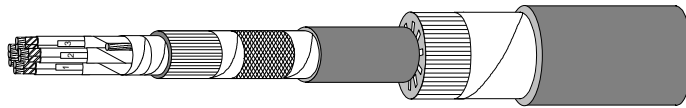
MGT/EPR/EPR/TCWB/EVA/HCF/SHF1

NEK 606 Code S16

# FlexFlame | HCF

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

Operating temperature : 90°C  
Operating Voltage : 250V



### 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.

### Standards applied

IEC 60092-376 (2003-05)	- Design
Draka Norsk Kabel	- HCF protection
IEC 60228 class 2	- Conductor
IEC 60092-360	- Insulation
IEC 60092-360	- Sheath
IEC 60332-1-2	- Flame Retardant
IEC 60332-3-22	- Flame Retardant
IEC 60331-21	- Fire Resistant
EN 1363-2 / ISO 834	- HC Fire resistance
IEC 60754-1,2	- Halogen Free
IEC 61034-1,2	- Low Smoke

### Construction

	Code Letter	
<b>Conductor</b>		Tinned stranded circular copper, IEC 60228 class 2
<b>Insulation</b>	<b>B</b>	Mica-tape + EP-rubber, IEC 60092-360 (EPR)
<b>Pair / Triple / Quad twisting</b>		Color coded cores twisted together and wrapped with polyester tape. Pairs/Triples are laid up collectively and screened by copper backed polyester tape with tinned copper drain wire. Pairs/triples are identified by numbered tape or by numbers printed directly on the insulated conductors.
<b>Inner covering</b>	<b>F</b>	Flame retardant and halogen-free thermoplastic compound
<b>Tape over bedding</b>		PET tape
<b>Armour/screen</b>	<b>O</b>	Tinned copper wire braid
<b>Tape over armour/screen</b>		PET tape
<b>Outer sheath</b>	<b>U</b>	Flame retardant, halogen-free and mud resistant thermoset compound, SHF2 (IEC 60092-360)
<b>HCF protection</b>	<b>-HCF</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>		Eg. "meter" "år" DRAKA NORSK KABEL BFOU-HCF(c) 250V S16 4 PAIR 1,5 mm <sup>2</sup> HCF 1100/30 FLEX - FLAME IEC 60331-21 IEC 60332-3-22
<b>Outer sheath colour</b>		Grey, Blue or Black

Subject to change without prior notice

Draka Norsk Kabel AS

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## Core identification instrumentation cables

Pair Black - Light Blue  
Triple Black - Light Blue - Brown

## Range and dimensions

New Part number	Old Part number	Type [mm <sup>2</sup> ]	Diameter over bedding [mm]	Thickness of armour wires [mmØ]	Diameter sheath [mm]	Diameter overall HCF-protection (mm)	Weight of cable approx. [kg/km]
	886681 Black	8 pair 0,75	16.5±0.8	0.3	20.5± 1	40.5 ± 3	2790
	886761 Blue	2 pair 1,5	13,0±0,8	0,3	16,5±0,8	44,0±2,0	2310
	886562 Grey	4 pair 1,5	15,0±0,8	0,3	19,0±0,8	46,0±2,0	2600
	886752 Black	8 pair 1,5	20,0±1,0	0,3	24,5±1,0	52,5±2,5	3410
	886709 Grey	12 pair 1,5	24,0±1,0	0,3	28,5±1,0	56,5±2,5	4030
	886762 Black	24 pair 1,5	33,5±1,5	0,4	39,5±1,5	72,5±3,5	6930

## Electrical values instrumentation cables

TYPE [mm <sup>2</sup> ]	Capacitance approx. [nF/km]	Inductance approx. [mH/km]	Resist. 20°C [Max.ohm/km]	L/R ratio, (microH/Ohm)
Unshielded pair 0.75mm <sup>2</sup>	100	0.67	26.3	12.7
Unshielded pair 1,5	110	0,63	12,9	24,4

## Installation recommendations

TYPE [mm <sup>2</sup> ]	Overall Diameter [mmØ]	Minimum bending radius		Maximum pulling tension [N]
		During Installation [mm]	Fixed Installed [mm]	
		<b>20 x D</b>	<b>12 x D</b>	
8 pair 0.75	40.5±2.0	810	486	600
2 pair 1,5	44,5±2,0	890	534	300
4 pair 1,5	46,0±2,0	920	552	600
8 pair 1,5	52,5±2,5	1050	630	1200
12 pair 1,5	56,0±2,5	1120	672	1800
24 pair 1,5	72,5±3,5	1450	870	3600

Minimum installation temperature: - 10°C

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