



## BFOU-HCF(i) 250V S15 / 1100°C / 30 minutes

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

### BFOU-HCF(i) 250V

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

NEK 606 Code S15

### FlexFlame | HCF

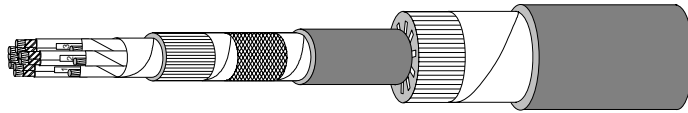
Draka  
1100°C / 2000°F / 200 kW/m<sup>2</sup>

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 60092-351	- Insulation
IEC 60092-359	- Sheath
IEC 60332-1	- Flame Retardant
IEC 60332-3-22	- Flame Retardant
IEC 60331-21	- Fire Resistant
UL 1709 / ASTM E1529	- HC Fire resistance
IEC 600754-1,2	- 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 60092-351 (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>	<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 60092-359)
<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 60092-359)
<b>Marking text</b>		Eg. "meter" "år" DRAKA NORSK KABEL BFOU-HCF(i) 250V S15 4 PAIR 1,5 mm2 HCF 1100/30 FLEX - FLAME IEC 60331-21 IEC 60332-3-22

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	Code Letter	
Outer sheath colour		Grey

**Core identification instrumentation cables**

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

**Range and dimensions**

Draka Norsk Kabel part no.	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]
886722	1 pair 0,75	7,5 ± 0,5	0,2	10,5 ± 0,8	38,0 ± 1,5	1520
886723	1 triple 0,75	8,0 ± 0,5	0,2	11,0 ± 0,8	38,0 ± 1,5	1710
886563	1 pair 1,5	9,0±0,5	0,2	12,0±0,8	39,5±1,5	1880
	2 pair 1,5	13,0±0,8	0,3	17,0±0,8	44,5±2,0	2450
	4 pair 1,5	15,5±0,8	0,3	19,5±0,8	47,5±2,0	2830
	8 pair 1,5	21,0±1,0	0,3	25,5±1,0	54,5±2,5	3690
	12 pair 1,5	25,0±1,0	0,3	30,0±1,5	63,0±3,0	5200
886711	1 pair 2.5	9.5 ± 0.5	0.2	13.0 ± 0.8	39.5 ± 1.5	1920
	2 pair 2.5	14.5 ± 0.8	0.3	18.5 ± 0.8	46.5 ± 2.0	2650

**Electrical values 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	24,8	14,3
Shielded triple 0,75 mm <sup>2</sup>	110	0,67	24,8	14,3
Shielded pair 1,5 mm <sup>2</sup>	125	0,63	12,2	26,6
Shielded triple 1,5 mm <sup>2</sup>	125	0,63	12,2	26,6
Shielded pair 2,5 mm <sup>2</sup>	145	0,59	7,56	39,0
Shielded triple 2,5 mm <sup>2</sup>	145	0,59	7,56	39,0

**Installation recommendations**

TYPE [mm <sup>2</sup> ]	Overall Diameter [mmØ]	Minimum bending radius		Maximum pulling tension [N]
		During Installation	Fixed Installed	
		<b>20 x D</b>	<b>12 x D</b>	
1 pair 0,75	38,0 ± 1,5	760	456	75
1 triple 0,75	38,0 ± 1,5	760	456	112,5

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TYPE [mm <sup>2</sup> ]	Overall Diameter [mmØ]	Minimum bending radius		Maximum pulling tension [N]
		During Installation	Fixed Installed [mm]	
1 pair 1,5	39,5±1,5	790	474	150
2 pair 1,5	44,5±2,0	890	534	300
4 pair 1,5	47,5±2,0	950	570	600
8 pair 1,5	54,5±2,5	1090	654	1200
12 pair 1,5	63,0±3.0	1260	756	1800
1 pair 2.5	39.5 ± 1.5	790	474	250
2 pair 2.5	46.5 ± 2.0	930	558	500

Minimum installation temperature: - 10 °C