



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

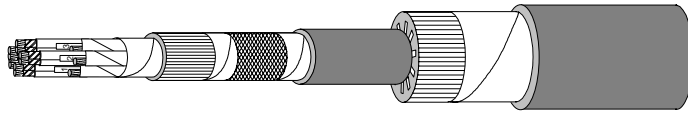
FlexFlame | HCF

Draka

1100°C / 2000°F / 200 kW/m²

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	
Conductor		Tinned stranded circular copper, IEC 60228 class 2
Insulation	B	Mica-tape + EP-rubber, IEC 60092-351 (EPR)
Pair / Triple / Quad twisting		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.
Inner covering	F	Flame retardant and halogen-free thermoplastic compound
Tape over bedding		PET tape
Armour/screen	O	Tinned copper wire braid
Tape over armour/screen		PET tape
Outer sheath	U	Flame retardant, halogen-free and mud resistant thermoset compound, SHF2 (IEC 60092-359)
HCF protection	-HCF	Extruded heatblock compound
Tape		Lapped glassfibre tape

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	Code Letter	
Overall sheath		Flame retardant, halogen-free thermoplastic compound, SHF1 (IEC 60092-359)
Marking text		Eg. "meter" "år" DRAKA NORSK KABEL BFOU-HCF(i) 250V S15 4 PAIR 1,5 mm ² HCF 1100/30 FLEX - FLAME IEC 60331-21 IEC 60332-3-22
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 ²]	Diameter over bedding [mm]	Thickness of armour wires [mmØ]	Diameter sheath [mm]	Diameter overall HCF-protection (mm)	Weight of cable approx. [kg/km]
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

Electrical values instrumentation cables

TYPE [mm ²]	Capacitance approx. [nF/km]	Inductance approx. [mH/km]	Resist. 20°C [Max.ohm/km]
single pair 1,5	125	0,63	12,2

Installation recommendations

TYPE [mm ²]	Overall Diameter [mmØ]	Minimum bending radius		Maximum pulling tension [N]
		During Installation	Fixed Installed	
		20 x D	12 x D	
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

Minimum installation temperature: - 10 °C