



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

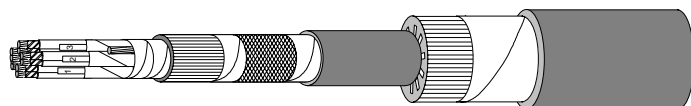
Draka
1100°C / 2000°F / 200 kW/m²

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 60754-1,2	- 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 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.
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
Overall sheath		Flame retardant, halogen-free thermoplastic compound, SHF1 (IEC 60092-359)
Marking text		Eg. "meter" "år" DRAKA NORSK KABEL BFOU-HCF(c) 250V S16 4 PAIR 1,5 mm ² HCF 1100/30 FLEX - FLAME IEC 60331-21 IEC 60332-3-22
Outer sheath		Grey



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	Code Letter	
colour		

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]
	2 pair 1,5	13,0±0,8	0,3	16,5±0,8	44,5±2,0	2400
886562	4 pair 1,5	15,0±0,8	0,3	19,0±0,8	46,0±2,0	2600
	8 pair 1,5	20,0±1,0	0,3	24,5±1,0	52,5±2,5	3420
886709 GREY	12 pair 1,5	23,5±1,0	0,3	28,5±1,0	56,0±2,5	3990
886762	24 pair 1,5	32,0±1,5	0,4	39,5±1,5	73,5±3,5	7170

Electrical values instrumentation cables

TYPE [mm ²]	Capacitance approx. [nF/km]	Inductance approx. [mH/km]	Resist. 20°C [Max.ohm/km]	L/R ratio, (microH/Ohm)
Multi pair 1,5	110	0,63	12,9	24,4

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	
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	73,5±3,5	1470	882	3600

Minimum installation temperature: - 10 C