



BFOU-HCF 0,6/1kV P34 / 1100°C / 30-60 minutes

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

BFOU-HCF 0,6/1kV

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

NEK 606 Code P34

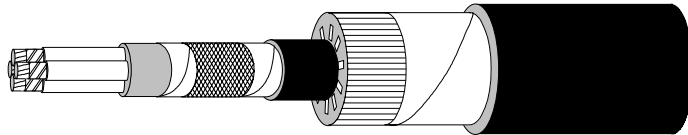
FlexFlame | HCF

Draka

1100°C / 2000°F / 200 kW/m²

Operating temperature : 90°C

Operating Voltage : 0,6/1kV



Application

Fixed installation for power, control and lightning in both EX- and safe areas, emergency and critical systems where requirement for fire resistance is vital.

Standards applied

IEC 60092-353	- 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)
Lay up / Shielding		Cores laid up in concentric layers
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 0,6/1kV P34 12 x 2,5/10 mm ² HCF 1100/30 FLEX - FLAME IEC 60331-21 IEC 60332-3-22
Outer sheath colour		Black

www.drakamog.com



BFOU-HCF 0,6/1kV P34 / 1100°C / 30-60 minutes

Core identification power cables

Single core	Grey (Offwhite)
Two cores	Grey (Offwhite) - Black
Three cores	Grey (Offwhite) - Black - Red
Four cores	Grey (Offwhite) - Black - Red - Blue
Five cores	Grey (Offwhite) - Black - Red - Blue - Black
Above five cores	Black numbers on white base
Separate earth core	Yellow/green

G / x in cable description G = one of the core are yellow/green - x = no yellow/green core

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]
	1x 50/6	15,0±0,8	0,20	18,5±0,8	45,5±2,5	2900
	1x 70/6	16,5±0,8	0,30	20,5±1,0	47,5±2,5	3300
	1x 95/10	18,5±0,8	0,30	23,0±1,0	50,5±3,0	3800
	1x 120/10	20,5±1,0	0,30	25,0±1,0	52,5±3,0	4260
	1x 150/10	23,0±1,0	0,30	27,0±1,0	54,5±3,0	4750
	1x 185/10	25,0±1,0	0,30	29,5±1,0	57,5±3,0	5380
886549	1x 240/16	28,0±1,0	0,30	32,5±1,5	66,0±3,5	7050
	1x 300/16	30,5±1,5	0,30	35,5±1,5	68,0±3,5	8000
886375	2x 1,5/4	10,0±0,8	0,20	13,0±0,8	40,5±2,5	1890
	3x 1,5/4	10,5±0,8	0,20	14,0±0,8	42,0±2,5	2140
886338	3x 2,5/6	11,5±0,8	0,30	15,0±0,8	42,5±2,5	2200
885499	3x 4/6	13,0±0,8	0,30	16,5±0,8	43,0±2,5	2400
885882	3x 6/6	14,0±0,8	0,30	18,0±0,8	45,0±2,5	2600
885138	3x 16/16	18,5±0,8	0,40	23,0±1,0	50,0±3,0	3500
	3x 35/16	25,0±1,0	0,30	29,5±1,0	57,5±3,0	4840
	3x 70/35	33,0±1,5	0,50	39,0±1,5	72,0±4,0	8150
	3x 120/60	41,0±2,0	0,60	48,0±2,0	81,5±4,5	11300
	3x 150/70	46,0±2,0	0,40 *	54,5±2,5	88,5±4,5	13300
886547	4x 2,5/6	12.5 ± 0.8	0.30	16.5 ± 0.8	44,0±2,5	2300
	4x 6/6	15.5 ± 0.8	0.30	19.5 ± 0.8	47,5±2,5	2870
886546	4x 16/16	20.5 ± 1.0	0.40	25.5 ± 1.0	53,5±3,0	3830
	7x 1,5/6	14,0±0,8	0,30	17,5±0,8	44,5±2,5	2550
885139	12x 1,5/10	18,5±0,8	0,30	22,5±1,0	50,0±3,0	3140



BFOU-HCF 0,6/1kV P34 / 1100°C / 30-60 minutes

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]
885124	7x 2,5/6	15,0±0,8	0,30	19,0±0,8	46,0±2,5	2760
886036	12x 2,5/10	20,5±1,0	0,30	24,5±1,0	52,0±3,0	3500
886548	27x 1,5/16	26.5±1.0	0.30	31.0±1.5	64,5±3,5	5070

* This cable has a double braid (two layers of wires)

ELECTRICAL DATA

No. of cores x cross section	Conductor resistance DC [Ω/km]		Reactance [Ω/km] at 50 / 60 Hz	Impedance [Ω/km] at 90 °C At 50 / 60 Hz	Continuous current rating at 45 °C	Short circuit [Ampere]	
	at 20 °C	at 90 °C				1 sec	0,3 sec
1 X 50/6	0,391	0,4986	0,161/0,193	0,524/0,535	196	7000	12780
1 X 70/6	0,270	0,344	0,152/0,182	0,376/0,390	242	9800	17892
1 X 95/10	0,195	0,2486	0,146/0,176	0,289/0,305	293	13300	24282
1 X 120/10	0,154	0,1964	0,141/0,170	0,242/0,260	339	16800	30672
1 X 150/10	0,126	0,161	0,137/0,164	0,211/0,223	389	21000	38340
1 X 185/10	0,100	0,128	0,133/0,160	0,185/0,205	444	25900	47286
1 X 240/16	0,0762	0,0972	0,133/0,159	0,165/0,187	522	3360	61344
1 X 300/16	0,0607	0,0774	0,128/0,154	0,150/0,173	601	42000	76681
2x 1,5/4	12,2	15,56	0,115/0,138	15,556/15,567	20	210	383
3x 1,5/4	12,2	15,56	0,115/0,138	15,556/15,567	16	210	383
3x 2,5/6	7,56	9,64	0,107/0,129	9,640/9,641	21	350	639
3x 4/6	4,70	5,99	0,100/0,120	5,993/5,994	28	560	1022
3x 6/6	3,11	3,97	0,094/0,112	3,967/3,9672	36	840	1534
3x 16/16	1,16	1,46	0,082/0,099	1,481/1,482	67	2240	4089
3x 35/16	0,529	0,675	0,078/0,094	0,679/0,681	110	4900	8946
3x 70/35	0,270	0,344	0,077/0,092	0,352/0,356	169	9800	17892
3x 120/60	0,154	0,196	0,073/0,088	0,209/0,215	237	16800	30672
3x 150/70	0,126	0,161	0,073/0,088	0,177/0,183	272	21000	38340
4x 2,5/6	7,56	9,64	0,107/0,129	9,640/9,641	21	350	639
4x 6/6	3,11	3,97	0,094/0,112	3,967/3,9672	36	840	1534
4x 16/16	1,16	1,46	0,082/0,099	1,481/1,482	67	2240	4089
7x 1,5/6	12,2	15,56	0,115/0,138	15,556/15,567	12	210	383
12x 1,5/10	12,2	15,56	0,115/0,138	15,556/15,567	10	210	383
7x 2,5/6	7,56	9,64	0,107/0,129	9,640/9,641	15,5	350	639



BFOU-HCF 0,6/1kV P34 / 1100°C / 30-60 minutes

No. of cores x cross section	Conductor resistance DC [Ω/km]		Reactance [Ω/km] at 50 / 60 Hz	Impedance [Ω/km] at 90 °C At 50 / 60 Hz	Continuous current rating at 45 °C	Short circuit [Ampere]	
	at 20 °C	at 90 °C				1 sec	0,3 sec
12x 2,5/10	7,56	9,64	0,107/0,129	9,640/9,641	13	350	639
27x 1,5/16	12,2	15,56	0,115/0,138	15,556/15,567	7,5	210	383

INSTALLATION DATA

TYPE [mm ²]	Overall Diameter [mmØ]	Minimum bending radius		Maximum pulling tension [N]
		During Installation [mm]	Fixed Installed [mm]	
		20 x D	12 x D	
1x 50/6	45,5±2,5	910	546	2500
1x 70/6	47,5±2,5	950	570	3500
1x 95/10	50,5±3,0	1010	606	4750
1x 120/10	52,5±3,0	1050	630	6000
1x 150/10	54,5±3,0	1090	654	7500
1x 185/10	57,5±3,0	1150	690	9250
1x 240/16	66,0±3,5	1320	792	12000
1x 300/16	68,0±3,5	1360	816	15000
2x 1,5/4	40,5±2,5	810	486	150
3x 1,5/4	42,0±2,5	840	504	225
3x 2,5/6	42,5±2,5	850	510	375
3x 4/6	43,0±2,5	860	516	600
3x 6/6	45,0±2,5	900	540	900
3x 16/16	50,0±3,0	1000	600	2400
3x 35/16	57,5±3,0	1150	690	5250
3x 70/35	72,0±4,0	1440	864	10500
3x 120/60	81,5±4,5	1630	978	18000
3x 150/70	88,5±4,5	1770	1062	20000
4x 2,5/6	44,0±2,5	880	528	500
4x 6/6	47,5±2,5	950	570	1200
4x 16/16	53,5±3,0	1070	642	3200
7x 1,5/6	44,5±2,5	890	536	525
12 x 1,5/10	50,0±3,0	1000	600	900
7x 2,5/6	46,0±2,5	920	552	875
12x 2,5/10	52,0±3,0	1040	624	1500



BFOU-HCF 0,6/1kV P34 / 1100°C / 30-60 minutes

TYPE [mm ²]	Overall Diameter [mmØ]	Minimum bending radius		Maximum pulling tension [N]
		During Installation	Fixed Installed [mm]	
27x 1,5/16	64,5±3,5	1290	774	2025

Minimum installation temperature: - 10 °C