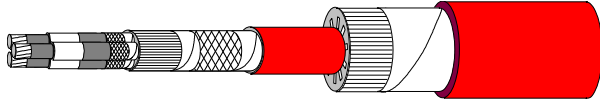


RFOU-HCF 18/30(36)kV P33/P113 / 1100°C / 30-60 min.

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

RFOU-HCF 18/30(36)kV

EPR/EPR/TCWB/EVA/HCF/SHF1



NEK TS 606:2016 Code P113
NEK TS 606:2009 Code P33

FlexFlame | HCF

Draka
1100°C / 2000°F / 200 kW/m²

Operating temperature : 90°C
Operating Voltage : 18/30(36)kV

Application

Fixed installation for medium voltage (MV) power in both EX- and safe areas, emergency and critical systems where requirement for fire resistance is vital.

Standards applied

IEC 60092-354	- 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
IEC 61892-4 and NEK TS 606	- HC Fire resistance
IEC 600754-1,2	- Halogen Free
IEC 61034-1,2	- Low Smoke

Construction

	Code Letter	
Conductor		Tinned stranded and compressed copper (STCC), IEC 60228 class 2
Conductor screen semiconductive		Semiconductive layer (EP-rubber)
Insulation	R	EP-rubber, IEC 60092-360 (EPR)
Insulation screen semiconductive		Semiconductive layer (EP-rubber)
Lay up / Shielding		Cores are laid up together. Cores are identified by Brown, Black or Grey threads under and over the metallic screen on each conductor.
Inner covering	F	Flame retardant and halogen-free thermoset 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 60092-360)
HCF protection	-HCF	Extruded heatblock compound
Tape		Lapped glassfibre tape
Overall sheath		Flame retardant, halogen-free thermoplastic compound, SHF1 (IEC 60092-360)

Subject to change without prior notice

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	Code Letter	
Marking text		Eg. "meter" "year" DRAKA NORSK KABEL RFOU-HCF 18/30(36)kV P33 1x 95/30 mm ² HCF 1100/60 FLEX - FLAME
Outer sheath colour		Red

Range and dimensions

Part number	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]
Tba	1 x 95/30	35 ± 2	0,4	42 ± 3	75,5 ± 3,5	7980
Tba	1 x 240/35	42 ± 2,5	0,4	50 ± 3	84 ± 4	10780

Type (mm ²)	Diameter of copper conductor approx. mmØ	Insulation thickness, nominal mm	Semi-conducting layer thickness approx. mm	Diameter over insulated, screened conductor, approx. mm
1x 95/30	12.1	8.0	0.8	31.3
1x 240/35	19.1	8.0	0.8	38.3

ELECTRICAL DATA

No. of cores x cross section [mm ²]	Conductor resistance DC [Ω/km]		Reactance [Ω/km] at 50 Hz	Impedance [Ω/km] at 90 °C at 50 Hz	Continuous current rating at 45 °C	Short circuit (conductor) [Ampere]	
	at 20 °C	at 90 °C				1 sec	0,3 sec
1x 95/30	0.195	0.249	0.138	0.285	293	13300	24282
1x 240/35	0.0762	0.0972	0.120	0.154	290	33600	61345

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INSTALLATION DATA

TYPE [mm ²]	Overall Diameter [mmØ]	Minimum bending radius		Maximum pulling tension [N]
		During Installation	Fixed Installed [mm]	
		20 x D	12 x D	
1x 95/30	75.5 ± 3.5	1510	906	4750
1x 240/35	84.0 ± 4.0	1680	1008	12000

Minimum installation temperature: - 10°C

The RFOU-HCF MV cables are available on request in all voltage levels from 3,6/6(7,2)kV up to and including 26/45(52)kV. Please be aware that we have a limitation on the cable diameter which allows us to manufacture mainly single core cables on these voltage levels.