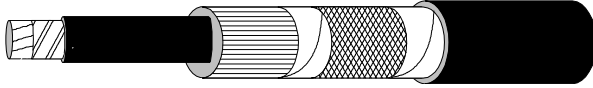


**Halogen-free, mud resistant, fire resistant power cable, BFOU 0,6/1(1,2)kV, P5/P12, large single core cables**

**Fire resistant, flame retardant halogen-free power cable. Mud resistant. Single core cable.**

## **BFOU 0,6/1(1,2)kV**

**MGT/EPR/EPR/TCWB/EVA**



**NEK TS 606 CodeP5/P12**

**Operating temperature : 90°C**  
**Operating Voltage : 0,6/1(1,2)kV**

### Standards applied

### Application

Fixed installation for power, control and lighting in both EX (Zone 0, 1 & 2)- and safe areas, emergency and critical systems where requirement for fire resistance exists. For installation in areas exposed to MUD and drilling/cleaning fluids. Meets the MUD resistance requirement in NEK TS 606:2009.

IEC 60092-353	- Design
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 60331-1, -2, -21	- Fire Resistant
IEC 60754-1,2	- Halogen Free
IEC 61034-1,2	- Low Smoke

### Construction

	<b>Code Letter</b>	
<b>Conductor</b>		Tinned annealed stranded circular copper (STCC), IEC 60228 class 2
<b>Insulation</b>	<b>B</b>	Mica-tape + EP-rubber, IEC 60092-360 (EPR)
<b>Lay up / Shielding</b>		Cores laid up in concentric layers
<b>Inner covering</b>	<b>F</b>	Flame retardant and halogen-free thermoplastic compound
<b>Tape over inner covering</b>		PET tape
<b>Armour/screen</b>	<b>O</b>	Tinned annealed 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 60092-360)
<b>Marking text</b>		E.g. "meter" "year" DRAKA 01 BFOU 0,6/1kV P5/P12 3 x 25/16 mm <sup>2</sup> FLEX - FLAME IEC 60331-1*) or IEC 60331-2*) IEC 60331-21**) IEC 60332-3-22
<b>Manufacturing unit</b>		DRAKA 01 = Draka Norsk Kabel
<b>Outer sheath colour</b>		Black

\*) IEC 60331-1 for cables with an overall diameter exceeding 20 mm and IEC 60331-2 for cables with an overall diameter not exceeding 20 mm  
 \*\*) IEC 60331-21 also at enhanced temperature 1000°C for 180 minutes



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## Core identification power cables

Single core - Black

Two cores - Blue - Brown

Three cores - Brown - Black - Grey

Four cores - Blue - Brown - Black - Grey

Five cores - Blue - Brown - Black - Grey - Black

Seven cores and above - White with black numbers

Two cores + earth (3G) - Yellow/green - Blue - Brown

Three cores + earth (4G) - Yellow/green - Brown - Black - Grey

Four cores + earth (5G) - Yellow/green - Blue - Brown - Black - Grey

G / X in cable description - G = One of the cores are yellow/green - X = no yellow/green core

Core identification - to HD308S2 - and IEC 60445 Ed 5.0 2010-08

## Range and dimensions

Number of elements	Cross section core, mm <sup>2</sup>	Electrical Cross section braid, mm <sup>2</sup>	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Inner covering, mm	Diameter inner covering, mm	Diameter Braid Wire, mm	Mechanical cross-section of the braid, mm <sup>2</sup>	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
1	400	25	26.00	2.6	1.4	35 ± 1.5	0.4	31.7	2.1	41 ± 2	5130	3974
1	500	25	29.0	2.8	1.4	38 ± 1.5	0.4	36.2	2.2	44.5 ± 2	6240	4923
1	630	25	32.80	2.8	1.4	42 ± 2	0.4	40.7	2.3	48.5 ± 2	7690	6205

## Ordering information

New Part number	Old Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
20132148		BFOU 0.6/1kV 1X 400/25 P5/P12	BLACK	-	7021528002119	-
	800212	BFOU 0.6/1kV 1X 500/25 P5/P12	BLACK	-	7021528002126	-
	800213	BFOU 0.6/1kV 1X 630/25 P5/P12	BLACK	-	7021528002133	-

## Electrical values power cables

Number of elements	Cross section core, mm <sup>2</sup>	Electrical Cross section braid, mm <sup>2</sup>	Conductor type 2	Max. conductor resistance at 20°C, Ohm/km	Max. conductor resistance at 90°C, Ohm/km	Reactance at 50Hz, Ohm/km	Reactance at 60Hz, Ohm/km	Current rating IEC 60092-352 Table B.4, Ampere	Short circuit rating 1 second, Ampere
1	400	25	STCC	0.0475	0.0606	0.088	0.105	690 dc / 670 ac	56000
1	500	25	STCC	0.0369	0.0471	0.086	0.103	780 dc / 720 ac	70000
1	630	25	STCC	0.0286	0.0365	0.084	0.100	890 dc / 780 ac	88200

## Ambient temperature correction factors

Ambient Temp °C	35	40	45	50	55	60	65	70	75	80
Rating factor	1.10	1.05	1.00	0.94	0.88	0.82	0.74	0.67	0.58	0.47

## Installation recommendations

Minimum Bending Radius during Installation	Minimum Bending Radius Fixed Installed	Maximum Tensile Load During Installation	Minimum Installation Temperature
8 x D	6 x D	50 N /mm <sup>2</sup>	-20°C



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