



Halogen-free, mud resistant, fire resistant power cable, BFOU 0,6/1kV, P5/P12, double braided

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

## BFOU 0,6/1kV

MGT/EPR/EPR/TCWB/EVA

NEK 606 CodeP5/P12



Operating temperature : 90°C  
Operating Voltage : 0,6/1kV

### Application

Fixed installation for power, control and lighting in both EX- and safe areas, emergency and critical systems where requirement for fire resistance exists. For installation in areas exposed to MUD and drilling/cleaning fluids.

### Standards applied

IEC 60092-353	- Design
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
IEC 60754-1,2	- Halogen Free
IEC 61034-1,2	- Low Smoke

### Construction

	Code Letter	
Conductor		Tinned annealed stranded circular copper (STCC), IEC 60228 class 2
Insulation	<b>B</b>	Mica-tape + EP-rubber, IEC 60092-351 (EPR)
Lay up / Shielding		Cores laid up in concentric layers
Inner covering	<b>F</b>	Flame retardant and halogen-free thermoplastic compound
Tape over inner covering		PET tape + rubberized Polyamide tape
Armour/screen	<b>O</b>	Two layers of tinned copper wire braid (double braid)
Tape over armour/screen		PET tape + rubberized Polyamide tape
Outer sheath	<b>U</b>	Flame retardant, halogen-free and mud resistant thermoset compound, SHF2 (IEC 60092-359)
Marking text		E.g. "meter" "år" DRAKA NORSK KABEL BFOU 0,6/1kV P5/P12 3 x 25/16 mm <sup>2</sup> FLEX - FLAME IEC 60331-21 IEC 60332-3-22 ETL Classified No. 3067229
Outer sheath colour		Black



**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

From Q3 2007 the core colours on RFOU, BFOU, RU and BU 0,6/1kV will be changed to follow Cenelec HD 308S2 colours:

Single core	Black
Two cores	Blue - Brown
Two cores + earth	Blue - Brown - Yellow/green
Three cores	Brown - Black - Grey
Three cores + earth	Brown - Black - Grey - Yellow/green
Four cores	Blue - Brown - Black - Grey
Four cores + earth	Blue - Brown - Black - Grey - Yellow/green
Five cores	Blue - Brown - Black - Grey - Black
Above five cores	Black numbers on white base

**Range and dimensions**

Number of elements	Cross section core, mm <sup>2</sup>	Cross section screen, mm <sup>2</sup>	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Inner covering, mm	Diameter inner covering, mm	Diameter Braid Wire, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
3	150	70	15.90	1.8	1.4	46 ± 2	0.4	2.6	54.5 ± 2.5	7390	4870
4	150	70	15.90	1.8	1.6	52 ± 2.5	0.5	2.8	61 ± 3	9370	6352
4	185	95	17.7	2.0	1.8	57.5 ± 2.5	0.4	2.9	68 ± 3	11650	7750
3	185	95	17.70	2.0	1.6	51.5 ± 2.5	0.5	2.8	60.5 ± 3	9360	6291

**Ordering information**

Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
800302	BFOU 0.6/1kV 3X 150/70 P5/P12	BLACK	Yes	7021528003024	-
800309	BFOU 0.6/1kV 4X 150/70 P5/P12	BLACK	-	7021528003093	-
800391	BFOU 0.6/1kV 4X 185/95 P5/P12	BLACK	-	7021528003918	-
800392	BFOU 0.6/1kV 3X 185/95 P5/P12	BLACK	-	7021528003925	-

**Electrical values power cables**

Number of elements	Cross section core, mm <sup>2</sup>	Cross section screen, mm <sup>2</sup>	Conductor type	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
3	150	70	KGTFR	0.126	0.161	0.073	0.088	272	21000
4	150	70	KGTFR	0.126	0.161	0.073	0.088	272	21000
4	185	95	KGTFR	0.1	0.128	0.073	0.088	311	25900
3	185	95	KGTFR	0.1	0.128	0.073	0.088	311	25900



**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