

Halogen-free, mud resistant power cable RFOU 0,6/1kV, P1/P8, double braided

Flame retardant halogen-free power cable.
Mud resistant

RFOU 0,6/1kV

EPR/EPR/TCWB/EVA

NEK 606 CodeP1/P8



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

Application

Fixed installation for power, control and lighting in both EX- and safe areas, general purposes. 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 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	R	EP-rubber, IEC 60092-351 (EPR)
Lay up / Shielding		Cores laid up in concentric layers
Inner covering	F	Flame retardant and halogen-free thermoset compound
Tape over inner covering		PET tape + rubberized Polyamide tape
Armour/screen	O	Two layers of tinned copper wire braid (double braid)
Tape over armour/screen		PET tape + rubberized Polyamide tape
Outer sheath	U	Flame retardant, halogen-free and mud resistant thermoset compound, SHF2 (IEC 60092-359)
Marking text		E.g. "meter" "år" DRAKA NORSK KABEL RFOU 0,6/1kV P1/P8 3 x 185/95 mm ² 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 ²	Cross section screen, mm ²	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	185	95	17.70	2.0	1.6	50.5 ± 2.5	0.5	2.7	59.5 ± 2.5	9220	6278
3	150	70	15.9	1.8	1.6	45.5 ± 2	0.4	2.6	54 ± 2.5	7380	4904
4	150	70	15.9	1.8	2	51.5 ± 2.5	0.4	2.8	60.5 ± 3	9310	6288
3	240	120	20.15	2.2	1.8	57.5 ± 2.5	0.6	3	67.5 ± 3	11820	8063

Ordering information

Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
800093	RFOU 0.6/1kV 3X 185/95 P1/P8	BLACK	-	7021528000931	-
800102	RFOU 0.6/1kV 3X 150/70 P1/P8	BLACK	-	7021528001020	1044252
800109	RFOU 0.6/1kV 4X 150/70 P1/P8	BLACK	-	7021528001099	-
800112	RFOU 0.6/1kV 3X 240/120 P1/P8	BLACK	-	7021528001129	-

Electrical values power cables

Number of elements	Cross section core, mm ²	Cross section screen, mm ²	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
3	185	95	STCC	0.1	0.128	0.072	0.086	311	25900
3	150	70	STCC	0.126	0.161	0.072	0.087	272	21000
4	150	70	STCC	0.126	0.161	0.072	0.087	272	21000
3	240	120	STCC	0.0762	0.0972	0.072	0.086	365	33600



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 ²	-20°C