

Halogen-free, mud resistant power cable RFOU 0,6/1(1,2)kV, P1/P8, double braided

Flame retardant halogen-free power cable. Mud resistant. Double braided.

RFOU 0,6/1(1,2)kV

EPR/EPR/TCWB/EVA

NEK TS 606 CodeP1/P8



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

Standards applied

- | | |
|-------------------|-------------------|
| 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 60754-1,2 | - Halogen Free |
| IEC 61034-1,2 | - Low Smoke |

Application

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

Construction

	Code Letter	
Conductor		Tinned annealed stranded circular copper (STCC), IEC 60228 class 2
Insulation	R	EP-rubber, IEC 60092-360 (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 60092-360)
Marking text		E.g. "meter" "year" DRAKA 01 RFOU 0,6/1kV P1/P8 3 x 185/95 mm ² IEC 60332-3-22
Manufacturing unit		DRAKA 01 = Draka Norsk Kabel,
Outer sheath colour		Black



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Thorne & Derrick
 +44 (0) 191 410 4292
www.powerandcables.com

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 ²	Electrical Cross section braid, mm ²	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 ²	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
3	150	75	15.9	1.8	1.6	46 ± 2	0.4	90.5	2.6	54 ± 2.5	7470	4981
4	150	75	15.9	1.8	2	51.5 ± 2.5	0.5	99	2.8	61 ± 3	9480	6444
3	185	95	17.70	2.0	1.6	50.5 ± 2.5	0.5	127.2	2.7	59.5 ± 2.5	9230	6283
4	185	95	17.7	2.0	2	57 ± 2.5	0.5	113.1	3	67 ± 3	11430	7837
3	240	120	20.15	2.2	1.8	57.5 ± 2.5	0.6	142.5	3	68 ± 3	11800	8046

Ordering information

New Part number	Old Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
20109430		RFOU 0.6/1kV 3X 150/75 P1/P8	BLACK	-	7021528001020	1044252
	800109	RFOU 0.6/1kV 4X 150/75 P1/P8	BLACK	-	7021528001099	-
20109425		RFOU 0.6/1kV 3X 185/95 P1/P8	BLACK	-	7021528000931	-
	800111	RFOU 0.6/1kV 4X 185/95 P1/P8	BLACK	-	7021528001112	-
20109431		RFOU 0.6/1kV 3X 240/120 P1/P8	BLACK	-	7021528001129	-

Electrical values power cables

Number of elements	Cross section core, mm ²	Electrical Cross section braid, 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	150	75	STCC	0.126	0.161	0.072	0.087	272	21000
4	150	75	STCC	0.126	0.161	0.072	0.087	272	21000
3	185	95	STCC	0.1	0.128	0.072	0.086	311	25900
4	185	95	STCC	0.1	0.128	0.072	0.086	311	25900
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



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