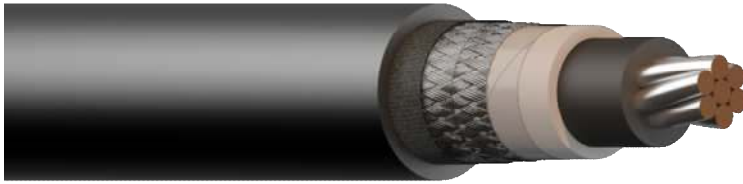


Halogen-free, mud resistant power cable RFOU 0,6/1(1,2)kV, P1/P8, large single core cables



Flame retardant halogen-free power cable. Mud resistant. Single core cable.

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

EPR/EPR/TCWB/EVA

NEK TS 606 Code P1/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
Armour/screen	O	Tinned annealed 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)
Marking text		E.g. "meter" "year" DRAKA 01 RFOU 0,6/1KV P1/P8 1 x 500/25 mm ² IEC 60332-3-22
Manufacturing unit		DRAKA 01 = Draka Norsk Kabel,
Outer sheath colour		Black



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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 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)
1	400	25	26.00	2.6	1.4	34.5 ± 1.5	0.4	31.7	2.1	40.5 ± 2	5070	3970
1	500	25	29.0	2.8	1.4	38 ± 1.5	0.4	36.2	2.2	44 ± 2	6220	4923
1	630	25	32.80	2.8	1.4	41.5 ± 2	0.4	40.7	2.3	48 ± 2	7650	6195

Ordering information

New Part number	Old Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
20110761		RFOU 0.6/1kV 1X 400/25 P1/P8	BLACK	-	7021528000115	-
	800012	RFOU 0.6/1kV 1X 500/25 P1/P8	BLACK	-	7021528000122	-
	800013	RFOU 0.6/1kV 1X 630/25 P1/P8	BLACK	-	7021528000139	-

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
1	400	25	STCC	0.0475	0.0606	0.087	0.104	690 dc / 670 ac	56000
1	500	25	STCC	0.0369	0.0471	0.085	0.103	780 dc / 720 ac	70000
1	630	25	STCC	0.0286	0.0365	0.083	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 ²	-20°C



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