

## FlexFlame RFOU 1kV P1/P8/P101 Power cable

Flame retardant halogen-free power cable.

# RFOU 0.6/1(1,2)kV

EPR/EPR/TCWB/EVA



RFOU 1kV      NEK TS 606 Code P101  
RFOU M 1kV    NEK TS 606 Code P1/P8/P101

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.

RFOU M 1kV for installation in areas exposed to MUD and drilling/cleaning fluids. Meets the Oil & Mud resistance requirement in NEK TS 606:2016.

### Construction

	Code Letter	
<b>Conductor</b>		Tinned annealed stranded circular copper (STCC), IEC 60228 class 2
<b>Insulation</b>	R	EP-rubber, IEC 60092-360 (EPR)
<b>Lay up / Shielding</b>		Cores laid up in concentric layers
<b>Inner covering</b>	F	Flame retardant and halogen-free extruded compound
<b>Tape over inner covering</b>		PET tape
<b>Armour/screen</b>	O	Tinned annealed copper wire braid
<b>Tape over armour/screen</b>		PET tape
<b>Outer sheath</b>	U	Flame retardant, halogen-free thermoset compound, SHF2 (IEC 60092-360)
<b>Marking text (example)</b>		"meter" "year/week" DRAKA 01 Part no. <SAP code> RFOU M 1kV P1/P8/P101 3 x 35/16 mm <sup>2</sup> IEC 60092-353 IEC 60332-3-22 Production no. <Prod.ordre no.>
<b>Manufacturing unit</b>		DRAKA 01 = Prysmian Group Norge AS
<b>Outer sheath colour</b>		Black

All RFOU 1kV cables are redesigned and the dimensional data on the following pages are valid for cables having Production No. 82966331 and higher.

Subject to change without prior notice

## FlexFlame RFOU 1kV P1/P8/P101 Power cable

### 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	16	4	5.05	1.0	1.1	9 ± 0.5	0.2	5.3	1.2	12.5 ± 0.8	355	191
1	25	4	6.3	1.2	1.1	11 ± 0.8	0.2	6.0	1.2	14 ± 0.8	475	279
1	35	6	7.4	1.2	1.1	12 ± 0.8	0.3	10.2	1.3	15.5 ± 0.8	630	401
1	50	6	8.75	1.4	1.1	14 ± 0.8	0.3	10.2	1.4	17.5 ± 0.8	785	511
1	70	10	10.6	1.4	1.1	15.5 ± 0.8	0.3	12.7	1.4	19.5 ± 0.8	1050	731
1	95	10	12.4	1.6	1.1	18 ± 0.8	0.3	15.3	1.5	21.5 ± 1	1355	967
1	120	10	14.0	1.6	1.1	19.5 ± 0.8	0.3	15.3	1.6	23.5 ± 1	1640	1207
1	150	10	15.45	1.8	1.1	21.5 ± 1	0.3	15.3	1.6	25.5 ± 1	1945	1435
1	185	16	17.3	2.0	1.1	24 ± 1	0.3	17.8	1.7	27.5 ± 1	2365	1768
1	240	16	19.85	2.2	1.1	27 ± 1	0.3	20.4	1.8	30.5 ± 1.5	3000	2303
1	300	16	22.25	2.4	1.1	29.5 ± 1	0.3	22.9	1.9	33.5 ± 1.5	3685	2966
1	400	25	26.0	2.6	1.1	33.5 ± 1.5	0.4	31.7	2.1	38.5 ± 1.5	4980	3983
1	500	25	29.0	2.8	1.1	36.5 ± 1.5	0.4	36.2	2.2	42 ± 2	6080	4947
1	630	35	32.8	2.8	1.1	40.5 ± 2	0.4	40.7	2.3	46 ± 2	7500	6221
2	1.5	4	1.6	1.0	1.1	9 ± 0.5	0.2	5.3	1.2	12.5 ± 0.8	262	78
3	1.5	4	1.6	1.0	1.1	10 ± 0.8	0.2	5.3	1.2	13 ± 0.8	288	92
4	1.5	6	1.6	1.0	1.1	10.5 ± 0.8	0.3	8.5	1.3	14.5 ± 0.8	365	136
5	1.5	6	1.6	1.0	1.1	11.5 ± 0.8	0.3	10.2	1.3	15 ± 0.8	430	165
7	1.5	6	1.6	1.0	1.1	12.5 ± 0.8	0.3	10.2	1.3	16 ± 0.8	480	192
12	1.5	10	1.6	1.0	1.1	16 ± 0.8	0.3	13.6	1.5	20 ± 1	705	291
19	1.5	10	1.6	1.0	1.1	19 ± 0.8	0.3	15.3	1.6	23 ± 1	950	400
27	1.5	16	1.6	1.0	1.1	23 ± 1	0.3	17.8	1.8	27 ± 1	1270	536
37	1.5	16	1.6	1.0	1.1	25.5 ± 1	0.3	20.4	1.9	30 ± 1.5	1610	692
3G	1.5	-	1.6	1.0	1.1	10 ± 0.8	0.2	5.3	1.2	13 ± 0.8	288	92
4G	1.5	-	1.6	1.0	1.1	10.5 ± 0.8	0.3	8.5	1.3	14.5 ± 0.8	365	136
5G	1.5	-	1.6	1.0	1.1	11.5 ± 0.8	0.3	10.2	1.3	15 ± 0.8	430	165
2	2.5	4	2.0	1.0	1.1	10 ± 0.8	0.2	5.3	1.2	13 ± 0.8	305	94
3	2.5	6	2.0	1.0	1.1	10.5 ± 0.8	0.3	8.5	1.3	14.5 ± 0.8	380	146
4	2.5	6	2.0	1.0	1.1	11.5 ± 0.8	0.3	10.2	1.3	15.5 ± 0.8	445	184
5	2.5	6	2.0	1.0	1.1	13 ± 0.8	0.3	10.2	1.4	16.5 ± 0.8	510	205
7	2.5	10	2.0	1.0	1.1	13.5 ± 0.8	0.3	11.9	1.4	17.5 ± 0.8	595	264
12	2.5	10	2.0	1.0	1.1	18 ± 0.8	0.3	15.3	1.6	22 ± 1	875	403
19	2.5	16	2.0	1.0	1.1	21 ± 1	0.3	17.8	1.7	25.5 ± 1	1220	576
27	2.5	16	2.0	1.0	1.1	25.5 ± 1	0.3	20.4	1.9	30 ± 1.5	1630	771
37	2.5	16	2.0	1.0	1.1	29.5 ± 1	0.3	22.9	2	34 ± 1.5	1890	883
3G	2.5	-	2.0	1.0	1.1	10.5 ± 0.8	0.3	8.5	1.3	14.5 ± 0.8	380	146
4G	2.5	-	2.0	1.0	1.1	11.5 ± 0.8	0.3	10.2	1.3	15.5 ± 0.8	445	184
5G	2.5	-	2.0	1.0	1.1	13 ± 0.8	0.3	10.2	1.4	16.5 ± 0.8	510	205
7G	2.5	-	2.0	1.0	1.1	13.5 ± 0.8	0.3	11.9	1.4	17.5 ± 0.8	590	264
2	4	6	2.5	1.0	1.1	11 ± 0.8	0.3	8.5	1.3	14.5 ± 0.8	405	153
3	4	6	2.5	1.0	1.1	12 ± 0.8	0.3	10.2	1.3	15.5 ± 0.8	470	202
4	4	6	2.5	1.0	1.1	13 ± 0.8	0.3	10.2	1.4	16.5 ± 0.8	540	236
5	4	10	2.5	1.0	1.1	14 ± 0.8	0.3	11.9	1.4	18 ± 0.8	635	287

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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)
3G	4	-	2.5	1.0	1.1	12 ± 0.8	0.3	10.2	1.3	15.5 ± 0.8	465	202
4G	4	-	2.5	1.0	1.1	13 ± 0.8	0.3	10.2	1.4	16.5 ± 0.8	540	236
5G	4	-	2.5	1.0	1.1	14 ± 0.8	0.3	11.9	1.4	18 ± 0.8	635	287
2	6	6	3.1	1.0	1.1	12.5 ± 0.8	0.3	10.2	1.3	16 ± 0.8	495	207
3	6	6	3.1	1.0	1.1	13 ± 0.8	0.3	10.2	1.4	17 ± 0.8	575	261
4	6	10	3.1	1.0	1.1	14.5 ± 0.8	0.3	11.9	1.4	18 ± 0.8	680	331
5	6	10	3.1	1.0	1.1	15.5 ± 0.8	0.3	11.9	1.5	19.5 ± 1	800	387
3G	6	-	3.1	1.0	1.1	13 ± 0.8	0.3	10.2	1.4	17 ± 0.8	570	261
4G	6	-	3.1	1.0	1.1	14.5 ± 0.8	0.3	11.9	1.4	18 ± 0.8	680	331
5G	6	-	3.1	1.0	1.1	15.5 ± 0.8	0.3	11.9	1.5	19.5 ± 1	800	387
2	10	10	4.0	1.0	1.1	14 ± 0.8	0.3	11.9	1.4	18 ± 0.8	650	290
3	10	10	4.0	1.0	1.1	15 ± 0.8	0.3	11.9	1.4	19 ± 0.8	760	377
4	10	10	4.0	1.0	1.1	16.5 ± 0.8	0.3	13.6	1.5	20.5 ± 1	925	481
3G	10	-	4.0	1.0	1.1	15 ± 0.8	0.3	11.9	1.4	19 ± 0.8	755	377
4G	10	-	4.0	1.0	1.1	16.5 ± 0.8	0.3	13.6	1.5	20.5 ± 1	925	481
5G	10	-	4.0	1.0	1.1	18 ± 0.8	0.3	15.3	1.5	22 ± 1	1095	585
2	16	16	5.05	1.0	1.1	16 ± 0.8	0.4	18.1	1.5	20.5 ± 1	905	455
3	16	16	5.05	1.0	1.1	17.5 ± 0.8	0.4	18.1	1.5	21.5 ± 1	1070	595
4	16	16	5.05	1.0	1.1	19 ± 0.8	0.3	17.8	1.6	23 ± 1	1285	732
3G	16	-	5.05	1.0	1.1	17.5 ± 0.8	0.3	13.6	1.5	21 ± 1	1025	551
4G	16	-	5.05	1.0	1.1	19 ± 0.8	0.3	15.3	1.6	23 ± 1	1255	707
5G	16	-	5.05	1.0	1.1	21 ± 1	0.3	17.8	1.6	25 ± 1	1495	871
3	25	16	6.3	1.2	1.1	21 ± 1	0.3	17.8	1.6	25 ± 1	1460	834
4	25	16	6.3	1.2	1.1	23.5 ± 1	0.3	17.8	1.7	27.5 ± 1	1780	1054
5	25	16	6.3	1.2	1.1	25.5 ± 1	0.3	20.4	1.8	30 ± 1.5	2130	1299
3G	25	-	6.3	1.2	1.1	21 ± 1	0.3	15.3	1.6	25 ± 1	1435	811
4G	25	-	6.3	1.2	1.1	23.5 ± 1	0.3	17.8	1.7	27.5 ± 1	1780	1054
5G	25	-	6.3	1.2	1.1	25.5 ± 1	0.3	20.4	1.8	30 ± 1.5	2130	1299
3	35	16	7.4	1.2	1.1	23.5 ± 1	0.3	17.8	1.7	27.5 ± 1	1820	1081
4	35	16	7.4	1.2	1.1	26 ± 1	0.3	20.4	1.8	30.5 ± 1.5	2265	1408
3G	35	-	7.4	1.2	1.1	23.5 ± 1	0.3	17.8	1.7	27.5 ± 1	1820	1081
4G	35	-	7.4	1.2	1.1	26 ± 1	0.3	20.4	1.8	30.5 ± 1.5	2265	1408
5G	35	-	7.4	1.2	1.1	29 ± 1.5	0.3	22.9	1.9	33.5 ± 1.5	2705	1735
2	50	25	8.75	1.4	1.1	25 ± 1	0.4	27.1	1.8	30 ± 1.5	1990	1086
3	50	25	8.75	1.4	1.1	27 ± 1	0.4	27.1	1.9	32 ± 1.5	2440	1498
4	50	25	8.75	1.4	1.1	30 ± 1.5	0.4	27.1	2	35 ± 1.5	3010	1909
4G	50	-	8.75	1.4	1.1	30 ± 1.5	0.3	22.9	2	34.5 ± 1.5	2960	1867
5G	50	-	8.75	1.4	1.1	33 ± 1.5	0.4	36.2	2.1	38.5 ± 1.5	3720	2408
2	70	35	10.6	1.4	1.1	29 ± 1.5	0.5	42.4	1.9	34 ± 1.5	2760	1630
3	70	35	10.6	1.4	1.1	31 ± 1.5	0.5	42.4	2	36.5 ± 1.5	3410	2239
4	70	35	10.6	1.4	1.1	34.5 ± 1.5	0.4	40.7	2.2	40 ± 2	4195	2832
5	70	35	10.6	1.4	1.1	38 ± 1.5	0.4	40.7	2.3	44 ± 2	5050	3442
4G	70	-	10.6	1.4	1.1	34.5 ± 1.5	0.4	40.7	2.2	40 ± 2	4195	2832
5G	70	-	10.6	1.4	1.1	38 ± 1.5	0.4	40.7	2.3	44 ± 2	5050	3442
2	95	50	12.4	1.6	1.4	34 ± 1.5	0.5	49.5	2.1	39.5 ± 1.5	3650	2123
3	95	50	12.4	1.6	1.4	36.5 ± 1.5	0.5	49.5	2.2	42 ± 2	4525	2944
4	95	50	12.4	1.6	1.4	40.5 ± 2	0.5	49.5	2.4	46.5 ± 2	5590	3767
4G	95	-	12.4	1.6	1.4	40.5 ± 2	0.4	40.7	2.4	46 ± 2	5500	3681
5G	95	-	12.4	1.6	1.4	45 ± 2	0.4	45.2	2.5	51 ± 2.5	6680	4546
2	120	60	14.0	1.6	1.4	37 ± 1.5	0.61	63.1	2.2	43 ± 2	4530	2736
3	120	60	14.0	1.6	1.4	40 ± 2	0.61	63.1	2.3	46 ± 2	5640	3798

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4	120	60	14.0	1.6	1.4	44.5 ± 2	0.61	63.1	2.5	51 ± 2.5	6970	4860
4G	120	-	14.0	1.6	1.4	44.5 ± 2	0.4	45.2	2.5	50.5 ± 2.5	6775	4687
5G	120	-	14.0	1.6	1.4	49.5 ± 2	0.5	49.5	2.7	56 ± 2.5	8330	5793
3G	150	-	15.45	1.8	1.4	44.5 ± 2	0.4	45.2	2.5	50 ± 2.5	6520	4302
4G	150	-	15.45	1.8	1.4	49 ± 2	0.5	56.5	2.7	56 ± 2.5	8325	5702
5G	150	-	15.45	1.8	1.4	55 ± 2.5	0.5	56.5	2.9	62 ± 3	10050	6999
4G	185	-	17.3	2.0	1.4	54.5 ± 2.5	0.5	56.5	2.9	61.5 ± 3	10120	6960

### Ordering information

Part Number	Description	Sheath Colour	GTIN 1m	EL No.
20194476	RFOU M 1kV 1X 16/4mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000009	-
20139734	RFOU M 1kV 1X 25/4mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000016	1044206
20183111	RFOU M 1kV 1X 35/6mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000023	1044207
20204253	RFOU M 1kV 1X 50/6mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000030	1044208
20151455	RFOU M 1kV 1X 70/10mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000047	-
20151456	RFOU M 1kV 1X 95/10mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000054	1044210
20132989	RFOU M 1kV 1X 120/10mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000061	-
20133004	RFOU M 1kV 1X 150/10mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000078	1044211
20136468	RFOU M 1kV 1X 185/16mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000085	1044213
20110465	RFOU M 1kV 1X 240/16mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000092	1044214
20110466	RFOU M 1kV 1X 300/16mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000108	1044215
20110761	RFOU M 1kV 1X 400/25mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000115	-
20204254	RFOU M 1kV 1X 500/25mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000122	-
20204255	RFOU M 1kV 1X 630/35mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000139	-
20110467	RFOU M 1kV 2X 1.5/4mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000153	1044220
20110469	RFOU M 1kV 3X 1.5/4mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000184	1044240
20110470	RFOU M 1kV 4X 1.5/6mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000191	1044260
20111209	RFOU M 1kV 5X 1.5/6mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000207	1044305
20110471	RFOU M 1kV 7X 1.5/6mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000214	1044307
20104950	RFOU M 1kV 12X 1.5/10mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000221	1044312
20110472	RFOU M 1kV 19X 1.5/10mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000238	1044319
20204256	RFOU M 1kV 27X 1.5/16mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000245	1044327
20204257	RFOU M 1kV 37X 1.5/16mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000252	1044337
20110468	RFOU M 1kV 3G 1.5mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000160	-
20170924	RFOU M 1kV 4G 1.5mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000177	-
20204149	RFOU M 1kV 5G 1.5mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000269	-
20110473	RFOU M 1kV 2X 2.5/4mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000290	1044221
20110475	RFOU M 1kV 3X 2.5/6mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000320	1044241
20110476	RFOU M 1kV 4X 2.5/6mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000351	1044261
20222521	RFOU M 1kV 5X 2.5/6mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000368	1044355
20156200	RFOU M 1kV 7X 2.5/6mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000375	1044357
20109423	RFOU M 1kV 12X 2.5/10mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000382	1044362
20120716	RFOU M 1kV 19X 2.5/10mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000399	1044369
20183112	RFOU M 1kV 27X 2.5/16mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000405	1044377
20114663	RFOU M 1kV 37X 2.5/16mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000412	1044387
20110474	RFOU M 1kV 3G 2.5mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000306	-
20171027	RFOU M 1kV 4G 2.5mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000337	-
20114348	RFOU M 1kV 5G 2.5mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000344	-
20172517	RFOU M 1kV 7G 2.5mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000443	-
20110477	RFOU M 1kV 2X 4/6mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000450	1044222

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Subject to change without prior notice

## FlexFlame RFOU 1kV P1/P8/P101 Power cable

Part Number	Description	Sheath Colour	GTIN 1m	EL No.
20110478	RFOU M 1kV 3X 4/6mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000467	1044242
20110479	RFOU M 1kV 4X 4/6mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000474	1044262
20204162	RFOU M 1kV 5X 4/10mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000481	-
20110480	RFOU M 1kV 3G 4mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000498	-
20133496	RFOU M 1kV 4G 4mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000436	-
20204161	RFOU M 1kV 5G 4mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000504	-
20110481	RFOU M 1kV 2X 6/6mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000511	1044223
20110482	RFOU M 1kV 3X 6/6mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000528	1044243
20110483	RFOU M 1kV 4X 6/10mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000535	1044263
20217564	RFOU M 1kV 5X 6/10mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528001174	-
20132988	RFOU M 1kV 3G 6mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000559	-
20117131	RFOU M 1kV 4G 6mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000542	-
20204188	RFOU M 1kV 5G 6mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000566	-
20110484	RFOU M 1kV 2X 10/10mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000573	1044224
20110485	RFOU M 1kV 3X 10/10mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000580	1044244
20110486	RFOU M 1kV 4X 10/10mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000597	1044264
20172573	RFOU M 1kV 3G 10mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000603	-
20172232	RFOU M 1kV 4G 10mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000627	-
20170625	RFOU M 1kV 5G 10mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000610	-
20110487	RFOU M 1kV 2X 16/16mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000634	1044225
20110488	RFOU M 1kV 3X 16/16mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000641	1044245
20110489	RFOU M 1kV 4X 16/16mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000658	1044265
20172574	RFOU M 1kV 3G 16mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000689	-
20172267	RFOU M 1kV 4G 16mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000665	-
20204189	RFOU M 1kV 5G 16mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000672	-
20110490	RFOU M 1kV 3X 25/16mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000702	1044246
20110491	RFOU M 1kV 4X 25/16mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000719	1044266
20227783	RFOU M 1kV 5X 25/16mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528001204	-
20180325	RFOU M 1kV 3G 25mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000733	-
20172269	RFOU M 1kV 4G 25mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000726	-
20181998	RFOU M 1kV 5G 25mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000740	-
20110492	RFOU M 1kV 3X 35/16mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000764	1044247
20110493	RFOU M 1kV 4X 35/16mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000771	1044267
20224950	RFOU M 1kV 3G 35mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528001181	-
20172341	RFOU M 1kV 4G 35mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000788	-
20204190	RFOU M 1kV 5G 35mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000795	-
20183090	RFOU M 1kV 2X 50/25mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000818	-
20110494	RFOU M 1kV 3X 50/25mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000825	1044248
20110495	RFOU M 1kV 4X 50/25mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000832	1044268
20172466	RFOU M 1kV 4G 50mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000849	-
20285228	RFOU M 1kV 5G 50mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000856	-
20172571	RFOU M 1kV 2X 70/35mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000870	-
20109424	RFOU M 1kV 3X 70/35mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000887	1044249
20136469	RFOU M 1kV 4X 70/35mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000894	1044269
20221402	RFOU M 1kV 5X 70/35mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000924	-
20172467	RFOU M 1kV 4G 70mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000900	-
20204194	RFOU M 1kV 5G 70mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000917	-

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Subject to change without prior notice

## FlexFlame RFOU 1kV P1/P8/P101 Power cable

Part Number	Description	Sheath Colour	GTIN 1m	EL No.
20172572	RFOU M 1kV 2X 95/50mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000948	-
20109426	RFOU M 1kV 3X 95/50mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000955	1044250
20109427	RFOU M 1kV 4X 95/50mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000962	1044270
20138643	RFOU M 1kV 4G 95mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000979	-
20285229	RFOU M 1kV 5G 95mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000986	-
20109428	RFOU M 1kV 2X 120/60mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528001006	-
20109429	RFOU M 1kV 3X 120/60mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528001013	1044251
20132986	RFOU M 1kV 4X 120/60mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528001051	-
20204196	RFOU M 1kV 4G 120mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528001068	-
20204195	RFOU M 1kV 5G 120mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000993	-
20224951	RFOU M 1kV 3G 150mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528001198	-
20114321	RFOU M 1kV 4G 150mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528001082	-
20132887	RFOU M 1kV 5G 150mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528001150	-
20204197	RFOU M 1kV 4G 185mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528001105	-

### 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	16	4	STCC	1.16	1.48	0.117	0.141	96	2240
1	25	4	STCC	0.734	0.936	0.111	0.133	127	3500
1	35	6	STCC	0.529	0.675	0.107	0.129	157	4900
1	50	6	STCC	0.391	0.499	0.106	0.127	196	7000
1	70	10	STCC	0.27	0.344	0.100	0.120	242	9800
1	95	10	STCC	0.195	0.249	0.097	0.117	293	13300
1	120	10	STCC	0.154	0.196	0.095	0.114	339	16800
1	150	10	STCC	0.126	0.161	0.094	0.112	389	21000
1	185	16	STCC	0.1	0.128	0.092	0.110	444	25900
1	240	16	STCC	0.0762	0.0972	0.090	0.108	522	33600
1	300	16	STCC	0.0607	0.0774	0.088	0.105	601	42000
1	400	25	STCC	0.0475	0.0606	0.087	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	35	STCC	0.0286	0.0365	0.084	0.100	890 dc / 780 ac	88200
2	1.5	4	STCC	12.2	15.6	0.110	0.132	20	210
3	1.5	4	STCC	12.2	15.6	0.110	0.132	16	210
4	1.5	6	STCC	12.2	15.6	0.110	0.132	16	210
5	1.5	6	STCC	12.2	15.6	0.110	0.132	13.5	210
7	1.5	6	STCC	12.2	15.6	0.110	0.132	12	210
12	1.5	10	STCC	12.2	15.6	0.110	0.132	10	210
19	1.5	10	STCC	12.2	15.6	0.110	0.132	8.5	210
27	1.5	16	STCC	12.2	15.6	0.110	0.132	7.5	210
37	1.5	16	STCC	12.2	15.6	0.110	0.132	7	210
3G	1.5	-	STCC	12.2	15.6	0.110	0.132	20	210
4G	1.5	-	STCC	12.2	15.6	0.110	0.132	16	210
5G	1.5	-	STCC	12.2	15.6	0.110	0.132	16	210
2	2.5	4	STCC	7.56	9.64	0.103	0.123	26	350

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Subject to change without prior notice

## FlexFlame RFOU 1kV P1/P8/P101 Power cable

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
3	2.5	6	STCC	7.56	9.64	0.103	0.123	21	350
4	2.5	6	STCC	7.56	9.64	0.103	0.123	21	350
7	2.5	6	STCC	7.56	9.64	0.103	0.123	15.5	350
12	2.5	10	STCC	7.56	9.64	0.103	0.123	13	350
19	2.5	10	STCC	7.56	9.64	0.103	0.123	11	350
27	2.5	16	STCC	7.56	9.64	0.103	0.123	10	350
37	2.5	16	STCC	7.56	9.64	0.103	0.123	9	350
3G	2.5	-	STCC	7.56	9.64	0.103	0.123	26	350
4G	2.5	-	STCC	7.56	9.64	0.103	0.123	21	350
5G	2.5	-	STCC	7.56	9.64	0.103	0.123	21	350
7G	2.5	-	STCC	7.56	9.64	0.103	0.123	16.5	350
2	4	6	STCC	4.7	5.99	0.096	0.115	34	560
3	4	6	STCC	4.7	5.99	0.096	0.115	28	560
4	4	6	STCC	4.7	5.99	0.096	0.115	28	560
5	4	10	STCC	4.7	5.99	0.096	0.115	23.5	560
3G	4	-	STCC	4.7	5.99	0.096	0.115	34	560
4G	4	-	STCC	4.7	5.99	0.096	0.115	28	560
5G	4	-	STCC	4.7	5.99	0.096	0.115	28	560
2	6	6	STCC	3.11	3.97	0.091	0.109	44	840
3	6	6	STCC	3.11	3.97	0.091	0.109	36	840
4	6	10	STCC	3.11	3.97	0.091	0.109	36	840
5	6	10	STCC	3.11	3.97	0.091	0.109	30.5	840
3G	6	-	STCC	3.11	3.97	0.091	0.109	44	840
4G	6	-	STCC	3.11	3.97	0.091	0.109	36	840
5G	6	-	STCC	3.11	3.97	0.091	0.109	36	840
2	10	10	STCC	1.84	2.35	0.085	0.102	61	1400
3	10	10	STCC	1.84	2.35	0.085	0.102	50	1400
4	10	10	STCC	1.84	2.35	0.085	0.102	50	1400
3G	10	-	STCC	1.84	2.35	0.085	0.102	61	1400
4G	10	-	STCC	1.84	2.35	0.085	0.102	50	1400
5G	10	-	STCC	1.84	2.35	0.085	0.102	50	1400
2	16	16	STCC	1.16	1.48	0.080	0.096	80	2240
3	16	16	STCC	1.16	1.48	0.080	0.096	67	2240
4	16	16	STCC	1.16	1.48	0.080	0.096	67	2240
3G	16	-	STCC	1.16	1.48	0.080	0.096	80	2240
4G	16	-	STCC	1.16	1.48	0.080	0.096	67	2240
5G	16	-	STCC	1.16	1.48	0.080	0.096	67	2240
3	25	16	STCC	0.734	0.936	0.080	0.095	89	3500
4	25	16	STCC	0.734	0.936	0.080	0.095	89	3500
5	25	16	STCC	0.734	0.936	0.080	0.095	74	3500
3G	25	-	STCC	0.734	0.936	0.080	0.095	108	3500
4G	25	-	STCC	0.734	0.936	0.080	0.095	89	3500
5G	25	-	STCC	0.734	0.936	0.080	0.095	89	3500
3	35	16	STCC	0.529	0.675	0.077	0.092	110	4900
4	35	16	STCC	0.529	0.675	0.077	0.092	110	4900
3G	35	-	STCC	0.529	0.675	0.077	0.092	133	4900

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## FlexFlame RFOU 1kV P1/P8/P101 Power cable

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
4G	35	-	STCC	0.529	0.675	0.077	0.092	110	4900
5G	35	-	STCC	0.529	0.675	0.077	0.092	110	4900
2	50	25	STCC	0.391	0.499	0.077	0.092	167	7000
3	50	25	STCC	0.391	0.499	0.077	0.092	137	7000
4	50	25	STCC	0.391	0.499	0.077	0.092	137	7000
4G	50	-	STCC	0.391	0.499	0.077	0.092	137	7000
5G	50	-	STCC	0.391	0.499	0.077	0.092	137	7000
2	70	35	STCC	0.27	0.344	0.074	0.089	206	9800
3	70	35	STCC	0.27	0.344	0.074	0.089	169	9800
4	70	35	STCC	0.27	0.344	0.074	0.089	169	9800
5	70	35	STCC	0.27	0.344	0.074	0.089	141.5	9800
4G	70	-	STCC	0.27	0.344	0.074	0.089	169	9800
5G	70	-	STCC	0.27	0.344	0.074	0.089	169	9800
2	95	50	STCC	0.195	0.249	0.074	0.088	249	13300
3	95	50	STCC	0.195	0.249	0.074	0.088	205	13300
4	95	50	STCC	0.195	0.249	0.074	0.088	205	13300
4G	95	-	STCC	0.195	0.249	0.074	0.088	205	13300
5G	95	-	STCC	0.195	0.249	0.074	0.088	205	13300
2	120	60	STCC	0.154	0.196	0.072	0.087	288	16800
3	120	60	STCC	0.154	0.196	0.072	0.087	237	16800
4	120	60	STCC	0.154	0.196	0.072	0.087	237	16800
4G	120	-	STCC	0.154	0.196	0.072	0.087	237	16800
5G	120	-	STCC	0.154	0.196	0.072	0.087	237	16800
3G	150	-	STCC	0.126	0.161	0.072	0.087	331	21000
4G	150	-	STCC	0.126	0.161	0.072	0.087	272	21000
5G	150	-	STCC	0.126	0.161	0.072	0.087	272	21000
4G	185	-	STCC	0.1	0.128	0.072	0.087	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 x total cross section (mm <sup>2</sup> ) of conductors	-20°C

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## FlexFlame RFOU 1kV P1/P8/P101 Power cable

Flame retardant halogen-free power cable. Double braided.

# RFOU 0.6/1(1,2)kV

EPR/EPR/TCWB/EVA



RFOU 1kV      NEK TS 606 Code P101  
RFOU M 1kV    NEK TS 606 Code P1/P8/P101

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, general purposes. RFOU M 1kV 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 60754-1,2	- Halogen Free
IEC 61034-1,2	- Low Smoke

### Construction

	Code Letter	
<b>Conductor</b>		Tinned annealed stranded circular copper (STCC), IEC 60228 class 2
<b>Insulation</b>	<b>R</b>	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 extruded compound
<b>Tape over inner covering</b>		PET tape + rubberized Polyamide tape
<b>Armour/screen</b>	<b>O</b>	Two layers of tinned copper wire braid (double braid)
<b>Tape over armour/screen</b>		PET tape + rubberized Polyamide tape
<b>Outer sheath</b>	<b>U</b>	Flame retardant, halogen-free thermoset compound, SHF2 (IEC 60092-360)
<b>Marking text (example)</b>		"meter" "year/week" DRAKA 01 Part no. <SAP code> RFOU M 1kV P1/P8/P101 3 x 185/95 mm <sup>2</sup> IEC 60332-3-22 Production no. <Prod.ordre no.>
<b>Manufacturing unit</b>		DRAKA 01 = Prysmian Group Norge AS
<b>Outer sheath colour</b>		Black

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Subject to change without prior notice

## FlexFlame RFOU 1kV P1/P8/P101 Power cable

### 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)
3	150	75	15.45	1.8	1.4	44.5 ± 2	0.4	90.5	2.6	52 ± 2.5	7030	4747
4	150	75	15.45	1.8	1.4	49 ± 2	0.4	90.5	2.8	57 ± 3	8720	6043
3	185	95	17.3	2.0	1.4	49 ± 2	0.5	113.1	2.7	57.5 ± 2.5	8650	5918
4	185	95	17.3	2.0	1.4	54.5 ± 2.5	0.5	113.1	3	63.5 ± 3	10750	7539
3	240	120	19.85	2.2	1.4	55.5 ± 2.5	0.61	147.2	3	65 ± 3	11260	7823

### Ordering information

Part number	Description	Sheath Colour	GTIN 1m	Norwegian EL No.
20109430	RFOU M 1kV 3X 150/75mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528001020	1044252
20138527	RFOU M 1kV 4X 150/75mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528001099	-
20109425	RFOU M 1kV 3X 185/95mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528000931	-
20150519	RFOU M 1kV 4X 185/95mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528001112	-
20109431	RFOU M 1kV 3X 240/120mm <sup>2</sup> P1/P8/P101 BK	BLACK	7021528001129	-

### 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
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

All RFOU 1kV cables are redesigned and the dimensional data on the following pages are valid for cables having Production No. 82966331 and higher.

Subject to change without prior notice

## FlexFlame RFOU 1kV P1/P8/P101 Power cable

### 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 x total cross section (mm <sup>2</sup> ) of conductors	-20°C

All RFOU 1kV cables are redesigned and the dimensional data on the following pages are valid for cables having Production No. 82966331 and higher.

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