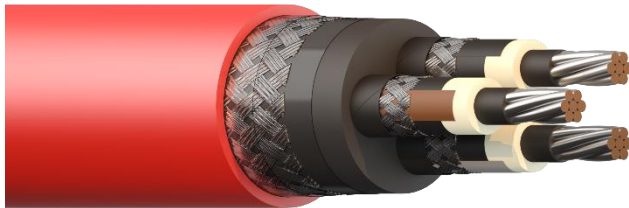


FlexFlame RFOU 15kV P4/P11/P104 Power cable



Flame retardant halogen-free medium voltage (MV) cable.

RFOU 8,7/15(17,5) kV
EPR/EPR/TCWB/EVA

RFOU 15kV NEK 606 Code P104
RFOU M 15kV NEK 606 Code P4/P11/P104

Operating temperature : 90°C
Operating Voltage : 8,7/15(17,5) kV

Standards applied

IEC 60092-354	- 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 medium voltage (MV) power in both EX- and safe areas, general purposes.
RFOU M 15kV 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	
Conductor		Tinned stranded and compressed copper (STCC), IEC 60228 class 2
Conductor screen semiconductive		Semiconductive layer (EP-rubber)
Insulation	R	EP-rubber, IEC 60092-360 (EPR)
Insulation screen semiconductive		Semiconductive layer (EP-rubber)
Metallic screen		Tinned copper wire braid
Lay up		Cores are laid up together. Cores are identified by Brown, Black or Grey threads over the metallic screen on each conductor.
Inner covering	F	Flame retardant and halogen-free extruded 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 thermoset compound, SHF2 (IEC 60092-360)
Marking text (example)		"meter" "year/week" DRAKA 04 Part no. <SAP-code> RFOU M 8,7/15(17,5)KV P4/P11/P104 1x 300/29 mm2 IEC 60332-3-22 Production no. <Production order number>
Manufacturing unit		DRAKA 04 = Draka Industrial Cable, Germany
Outer sheath colour		Red

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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	25	20	6.3	4.5	1.5	22 ± 1.5	0.4	31.7	1.8	28 ± 1.5	1485	694
1	50	20	8.5	4.5	1.5	25 ± 1.5	0.4	27.1	1.9	30.5 ± 1.5	1795	885
1	70	20	10.3	4.5	1.5	26.5 ± 1.5	0.4	31.7	1.9	32 ± 1.5	2150	1155
1	95	20	12.1	4.5	1.5	28 ± 1.5	0.4	31.7	2.0	34.5 ± 2.0	2550	1455
1	120	20	13.5	4.5	1.5	30 ± 2	0.4	36.2	2.0	36 ± 2	2800	1639
1	150	20	14.7	4.5	1.5	31 ± 1.5	0.4	40.7	2.1	38 ± 2	3165	1930
1	185	20	16.8	4.5	1.5	33 ± 1.5	0.4	40.7	2.2	39.5 ± 2.5	3700	2340
1	240	25	19.1	4.5	1.5	35.5 ± 1.5	0.4	40.7	2.2	42 ± 2.5	4435	2965
1	300	29	21.6	4.5	1.5	38 ± 1.5	0.4	40.7	2.3	44.5 ± 2.5	4960	3341
1	400	30	24.2	4.5	1.5	40.5 ± 2	0.4	49.8	2.6	49.5 ± 2.5	6180	4355
1	500	30	27.3	4.5	1.5	44 ± 2	0.4	49.8	2.5	51 ± 3	7270	5303
3	25	35	6.3	4.5	1.8	46.5 ± 2	0.5	56.5	2.7	55 ± 3	4770	1744
3	35	35	7.2	4.5	1.8	48.5 ± 2	0.5	49.5	2.8	57 ± 3	5310	2061
3	50	40	8.5	4.5	1.8	52 ± 2	0.5	70.7	2.9	61 ± 3	6070	2508
3	70	40	10.3	4.5	1.8	55 ± 2.5	0.5	77.7	3.0	64.5 ± 3	7210	3198
3	95	55	12.1	4.5	1.8	59 ± 2.5	0.5	84.8	3.2	68.5 ± 3.0	8810	4297
3	120	60	13.5	4.5	1.8	62.5 ± 2.5	0.5	84.8	3.3	72 ± 3.5	9590	4708
3	150	80	14.7	4.5	1.8	66 ± 2.5	0.6	122.1	3.5	76 ± 3.5	11120	5846
3	185	95	16.8	4.5	1.8	69.5 ± 2.5	0.6	122.1	3.5	80 ± 4.0	12530	6708
3	240	95	19.1	4.5	1.8	74 ± 2.5	0.6	122.1	3.9	85.5 ± 4	15670	8925
3	300	95	21.5	4.5	1.8	80.0 ± 3.0	0.6	122.1	4.0	91.0 ± 4.0	17800	10420

Ordering information

Part number	Description	Sheath Colour	EAN No. DNK	EL No.
	RFOU M 8.7/15KV 1X 25/20mm ² P4/P11/P104 RD	RED	7021528045017	-
	RFOU M 8.7/15KV 1X 50/20mm ² P4/P11/P104 RD	RED	7021528045031	-
20160673	RFOU M 8.7/15KV 1X 70/20mm ² P4/P11/P104 RD	RED	7021528045048	-
	RFOU M 8.7/15KV 1X 95/20mm ² P4/P11/P104 RD	RED	7021528045055	-
20130709	RFOU M 8.7/15KV 1X 120/20mm ² P4/P11/P104 RD	RED	7021528045062	-
	RFOU M 8.7/15KV 1X 150/20mm ² P4/P11/P104 RD	RED	7021528045079	-
20218193	RFOU M 8.7/15KV 1X 185/20mm ² P4/P11/P104 RD	RED	7021528045086	-
20154057	RFOU M 8.7/15KV 1X 240/25mm ² P4/P11/P104 RD	RED	7021528045093	-
20076154	RFOU M 8.7/15KV 1X 300/29mm ² P4/P11/P104 RD	RED	7021528045109	-
	RFOU M 8.7/15KV 1X 400/30mm ² P4/P11/P104 RD	RED	7021528045116	-
	RFOU M 8.7/15KV 1X 500/30mm ² P4/P11/P104 RD	RED		-
	RFOU M 8.7/15KV 3X 25/35mm ² P4/P11/P104 RD	RED	7021528045215	-
	RFOU M 8.7/15KV 3X 35/35mm ² P4/P11/P104 RD	RED	7021528045222	-
20162331	RFOU M 8.7/15KV 3X 50/40mm ² P4/P11/P104 RD	RED	7021528045239	-
	RFOU M 8.7/15KV 3X 70/40mm ² P4/P11/P104 RD	RED	7021528045246	-
20160674	RFOU M 8.7/15KV 3X 95/50mm ² P4/P11/P104 RD	RED	7021528045253	-
20160300	RFOU M 8.7/15KV 3X 120/60mm ² P4/P11/P104 RD	RED	7021528045260	-
20161737	RFOU M 8.7/15KV 3X 150/80mm ² P4/P11/P104 RD	RED	7021528045277	-
	RFOU M 8.7/15KV 3X 185/95mm ² P4/P11/P104 RD	RED	7021528045284	-

Subject to change without prior notice

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Part number	Description	Sheath Colour	EAN No. DNK	EL No.
	RFOU M 8.7/15KV 3X 240/95mm ² P4/P11/P104 RD	RED	7021528045291	-
	RFOU M 8.7/15KV 3X 300/95mm ² P4/P11/P104 RD	RED	7021528045307	-

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	Capacitans per phase, nF/km	Current rating IEC 60092-352 Table B.4, Ampere	Short circuit rating 1 second, Ampere
1	25	20	STCC	0.734	0.936	0.151	0.181	210	127	3500
1	35	20	STCC	0.529	0.675	0.145	0.174	230	157	4900
1	50	20	STCC	0.391	0.499	0.137	0.165	250	196	7000
1	70	20	STCC	0.270	0.344	0.130	0.156	280	242	9800
1	95	20	STCC	0.195	0.249	0.125	0.150	310	293	13300
1	120	20	STCC	0.154	0.196	0.120	0.144	340	339	16800
1	150	20	STCC	0.126	0.161	0.116	0.140	370	389	21000
1	185	20	STCC	0.100	0.128	0.113	0.135	400	444	25900
1	240	25	STCC	0.0762	0.0972	0.109	0.130	440	522	33600
1	300	29	STCC	0.0607	0.0774	0.105	0.126	480	601	42000
1	400	30	STCC	0.047	0.059	0.101	0.121	550	690 dc / 670 ac	56000
1	500	30	STCC	0.0369	0.047	0.099	0.118		780 dc / 720 ac	70000
3	25	35	STCC	0.734	0.936	0.127	0.152	210	89	3500
3	35	35	STCC	0.529	0.675	0.122	0.146	230	110	4900
3	50	40	STCC	0.391	0.499	0.115	0.138	250	137	7000
3	70	40	STCC	0.270	0.344	0.109	0.131	280	169	9800
3	95	55	STCC	0.195	0.249	0.104	0.125	310	205	13300
3	120	60	STCC	0.154	0.196	0.100	0.121	340	237	16800
3	150	80	STCC	0.126	0.161	0.097	0.117	370	272	21000
3	185	95	STCC	0.100	0.128	0.097	0.117	400	311	25900
3	240	95	STCC	0.0762	0.0972	0.091	0.109	440	365	33600
3	300	95	STCC	0.0607	0.0774	0.088	0.106	480	421	42000

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
15 x D	9 x D	50 N x total cross section (mm ²) of conductors	-20°C