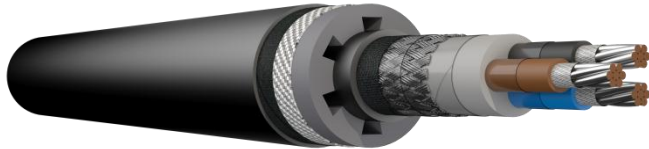


BFOU-JF 0,6/1kV / 250 kW/m² / 1200°C

Jet Fire protected and resistant, flame retardant halogen-free power cable, that is.

Rated and certified by Det Norske Veritas for withstanding 30 minutes.



BFOU-JF 0,6/1kV

MGT/EPR/EPR/TCWB/EVA/HCF/SHF1

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

Application

Fixed installation for power, control and lightning in both EX- and safe areas, emergency and critical systems where requirement for fire resistance is vital.

Standards applied

IEC 60092-353	- Design
Draka Norsk Kabel	- JF protection
IEC 60228 class 2	- Conductor
IEC 60092-360	- Insulation/sheath
IEC 60332-1-2	- Flame Retardant
IEC 60332-3-22	- Flame Retardant
IEC 60331-21	- Fire Resistant
ISO 22899-1	- Jet Fire resistance
IEC 600754-1,2	- Halogen Free
IEC 61034-1,2	- Low Smoke

	Code Letter	
Conductor		Tinned stranded circular copper, IEC 60228 class 2
Insulation	B	Mica-tape + EP-rubber, IEC 60092-360 (EPR)
Lay up / Shielding		Cores laid up in concentric layers
Inner covering	F	Flame retardant and halogen-free thermoplastic compound
Tape over bedding		PET tape
Armour/screen	O	Tinned copper wire braid/ PET tape
Outer sheath	U	Flame retardant, halogen-free and mud resistant thermoset compound, SHF2 (IEC 60092-360)
JF protection	-JF	Extruded heatblock compound
Tape		Lapped glassfibre tape
Overall sheath		Flame retardant, halogen-free thermoplastic compound, SHF1 (IEC 60092-360)
Marking text		Eg. "meter" "year" DRAKA NORSK KABEL BFOU-JF 0,6/1kV 12 x 2,5/10 mm ² FLEX - FLAME IEC 60331-21 IEC 60332-3-22
Outer sheath colour		Black

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Core identification power cables

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

New Part number	Type [mm ²]	Diameter over bedding [mm]	Thickness of armour wires [mmØ]	Diameter sheath [mm]	Diameter overall HCF-protection (mm)	Weight of cable approx. [kg/km]
	1x 50/6	15,0±0,8	0,20	18,5±0,8	45,5±2,5	2900
	1x 70/6	16,5±0,8	0,30	20,5±1,0	47,5±2,5	3300
	1x 95/10	18,5±0,8	0,30	23,0±1,0	50,5±3,0	3800
	1x 120/10	20,5±1,0	0,30	25,0±1,0	52,5±3,0	4260
	1x 150/10	23,0±1,0	0,30	27,0±1,0	54,5±3,0	4750
	1x 185/10	25,0±1,0	0,30	29,5±1,0	57,5±3,0	5380
	1x 240/16	28,0±1,0	0,30	32,5±1,5	66,0±3,5	7050
	1x 300/16	30,5±1,5	0,30	35,5±1,5	68,0±3,5	8000
	2x 1,5/4	10,0±0,8	0,20	13,0±0,8	40,5±2,5	1890
20153271	2x 2,5/6	11,0±0,8	0,30	14,5±0,8	42,0±2,5	2080
	3x 1,5/4	10,5±0,8	0,20	14,0±0,8	41,5±2,5	2070
	3x 2,5/6	11,5±0,8	0,30	15,0±0,8	42,5±2,5	2200
	3x 4/6	13,0±0,8	0,30	16,5±0,8	43,0±2,5	2400
20153272	3x 6/6	14,0 ± 0,8	0,30	18,0 ± 0,8	45,0 ± 2,0	2560
20153273	3x 10/10	16 ± 0,8	0,30	20 ± 0,8	47,5 ± 2,5	2900
	3x 16/16	18,5±0,8	0,40	23,0±1,0	50,0±3,0	3500
	3x 35/16	25,0±1,0	0,30	29,5±1,0	57,5±3,0	4840
	3x 70/35	33,0±1,5	0,50	39,0±1,5	72,0±4,0	8150
	3x 120/60	41,0±2,0	0,60	48,0±2,0	81,5±4,5	11300
	3x 150/70	46,0±2,0	0,40 *	54,5±2,5	88,5±4,5	13300

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New Part number	Type [mm ²]	Diameter over bedding [mm]	Thickness of armour wires [mmØ]	Diameter sheath [mm]	Diameter overall HCF-protection (mm)	Weight of cable approx. [kg/km]
	3x 4 + E	14.0 ± 0.8	0.30	18.0 ± 0.8	45.5 ± 2.5	2580
	3x 6 + E	15.5 ± 0.8	0.30	19.5 ± 0.8	47.5 ± 2.5	2870
	3x 10 + E	18.0 ± 0.8	0.30	22.0 ± 1.0	50.0 ± 3.0	3180
	3x 16 + E	20.5 ± 1.0	0.30	25.0 ± 1.0	53,5±3,0	3750
20153270	4x 2,5/6	12.5 ± 0.8	0.30	16.5 ± 0.8	43,0±2,5	2280
	4x 4/6	14.0 ± 0.8	0.30	18.0 ± 0.8	45,5 ± 2,5	2650
	4x 6/6	15.5 ± 0.8	0.30	19.5 ± 0.8	47,5±2,5	2870
	4x 10/10	18.0 ± 0.8	0.30	22.0 ± 1.0	50.0 ± 3.0	3180
	4x 16/16	20.5 ± 1.0	0.40	25.5 ± 1.0	53,0 ± 3,0	3830
	4x 25/16	25.0 ± 1.0	0.30	29.5 ± 1.0	58.5 ± 3.0	4730
	4x 10 + E	20.0 ± 1.0	0.3	24.0 ± 1.0	52.5 ± 3.0	3540
	7x 1,5/6	14,0±0,8	0,30	17,5±0,8	44,5±2,5	2550
20153269	12x 1,5/10	19±0,8	0,30	23±1,0	50,5±3,0	3250
	7x 2,5/6	15,0±0,8	0,30	19,0±0,8	46,0±2,5	2760
	8x 2,5/10	19,5± 0,8	0,30	23,5 ± 1,0	51,0 ± 3,0	3165
	12x 2,5/10	19 ± 0,8	0,30	23,0 ± 1,0	50.5 ± 2.5	3260
	27x 1,5/16	26.5±1.0	0.30	31.0±1.5	64,5±3,5	5070
	37x 1,5/16	30.0 ±1.5	0.30	35.5 ± 1.5	69.0 ± 3.5	5920

* This cable has a double braid (two layers of wires)

ELECTRICAL DATA

No. of cores x cross section	Conductor resistance DC [Ω/km]		Reactance [Ω/km] at 50 / 60 Hz	Impedance [Ω/km] at 90 °C At 50 / 60 Hz	Continuous current rating at 45 °C	Short circuit [Ampere]	
	at 20 °C	at 90 °C				1 sec	0,3 sec
1 X 50/6	0,391	0,4986	0,161/0,193	0,524/0,535	196	7000	12780
1 X 70/6	0,270	0,344	0,152/0,182	0,376/0,390	242	9800	17892
1 X 95/10	0,195	0,2486	0,146/0,176	0,289/0,305	293	13300	24282
1 X 120/10	0,154	0,1964	0,141/0,170	0,242/0,260	339	16800	30672
1 X 150/10	0,126	0,161	0,137/0,164	0,211/0,223	389	21000	38340
1 X 185/10	0,100	0,128	0,133/0,160	0,185/0,205	444	25900	47286

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No. of cores x cross section	Conductor resistance DC [Ω/km]		Reactance [Ω/km] at 50 / 60 Hz	Impedance [Ω/km] at 90 °C At 50 / 60 Hz	Continuous current rating at 45 °C	Short circuit [Ampere]	
	at 20 °C	at 90 °C				1 sec	0,3 sec
1 X 240/16	0,0762	0,0972	0,133/0,159	0,165/0,187	522	3360	61344
1 X 300/16	0,0607	0,0774	0,128/0,154	0,150/0,173	601	42000	76681
2x 1,5/4	12,2	15,56	0,115/0,138	15,556/15,567	20	210	383
2x 2,5/6	7,56	9,64	0,107/0,129	9,640/9,641	26	350	639
3x 1,5/4	12,2	15,56	0,115/0,138	15,556/15,567	16	210	383
3x 2,5/6	7,56	9,64	0,107/0,129	9,640/9,641	21	350	639
3x 4/6	4,70	5,99	0,100/0,120	5,993/5,994	28	560	1022
3x 6/6	3,11	3,97	0,094/0,112	3,967/3,9672	36	840	1534
3x 10/10	1,84	2,35	0,088/0,105	2,351/2,352	50	1400	2556
3x 16/16	1,16	1,46	0,082/0,099	1,481/1,482	67	2240	4089
3x 35/16	0,529	0,675	0,078/0,094	0,679/0,681	110	4900	8946
3x 70/35	0,270	0,344	0,077/0,092	0,352/0,356	169	9800	17892
3x 120/60	0,154	0,196	0,073/0,088	0,209/0,215	237	16800	30672
3x 150/70	0,126	0,161	0,073/0,088	0,177/0,183	272	21000	38340
3x 4 + E	4,70	5,99	0,100/0,120	5,993/5,994	28	560	1022
3x 6 + E	3,11	3,97	0,094/0,112	3,967/3,9672	36	840	1534
3x 10 + E	1,84	2,35	0,088/0,105	2,351/2,352	50	1400	2556
3x 16 + E	1,16	1,46	0,082/0,099	1,481/1,482	67	2240	4089
4x 2,5/6	7,56	9,64	0,107/0,129	9,640/9,641	21	350	639
4x 4/6	4,70	5,99	0,100/0,120	5,991/5,9912	28	560	1022
4x 6/6	3,11	3,97	0,094/0,112	3,967/3,9672	36	840	1534
4x 10/10	1,84	2,35	0,088/0,105	2,351/2,352	50	1400	2556
4x 16/16	1,16	1,46	0,082/0,099	1,481/1,482	67	2240	4089
4x 25/16	0,734	0,936	0,081/	0,098	89	3500	6390
4x 10 + E	1,84	2,35	0,088/0,105	2,351/2,352	50	1400	2556
7x 1,5/6	12,2	15,56	0,115/0,138	15,556/15,567	12	210	383
12x 1,5/10	12,2	15,56	0,115/0,138	15,556/15,567	10	210	383
7x 2,5/6	7,56	9,64	0,107/0,129	9,640/9,641	15,5	350	639
8x 2,5/10	7,56	9,64	0,107/0,129	9,640/9,641	15	350	639
12x 2,5/10	7,56	9,64	0,107/0,129	9,640/9,641	13	350	639
27x 1,5/16	12,2	15,56	0,115/0,138	15,556/15,567	7,5	210	383
37x 1,5/16	12,2	15,56	0,115/0,138	15,556/15,567	7	210	383

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INSTALLATION DATA

TYPE [mm ²]	Overall Diameter [mmØ]	Minimum bending radius		Maximum pulling tension [N]
		During Installation	Fixed Installed	
		[mm]		
		20 x D	12 x D	
1x 50/6	45,5±2,5	910	546	2500
1x 70/6	47,5±2,5	950	570	3500
1x 95/10	50,5±3,0	1010	606	4750
1x 120/10	52,5±3,0	1050	630	6000
1x 150/10	54,5±3,0	1090	654	7500
1x 185/10	57,5±3,0	1150	690	9250
1x 240/16	66,0±3,5	1320	792	12000
1x 300/16	68,0±3,5	1360	816	15000
2x 1,5/4	40,5±2,5	810	486	150
2x 2,5/6	42,0±2,5	840	504	250
3x 1,5/4	42,0±2,5	840	504	225
3x 2,5/6	42,5±2,5	850	510	375
3x 4/6	43,0±2,5	860	516	600
3x 6/6	45,0±2,5	900	540	900
3x 10/10	47,5 ± 2,5	950	570	1500
3x 16/16	50,0±3,0	1000	600	2400
3x 35/16	57,5±3,0	1150	690	5250
3x 70/35	72,0±4,0	1440	864	10500
3x 120/60	81,5±4,5	1630	978	18000
3x 150/70	88,5±4,5	1770	1062	20000
3x 4 + E	45.5 ± 2.5	910	546	800
3x 6 + E	47.5 ± 2.5	950	570	1200
3x 10 + E	50.0 ± 3.0	1000	600	2000
3x 16 + E	53,5±3,0	1070	642	3200
4x 2,5/6	44,0±2,5	880	528	500
4x 4/6	45,5 ± 2,5	910	546	800
4x 6/6	47,5±2,5	950	570	1200
4x 10/10	50.0 ± 3.0	1000	600	2000
4x 16/16	53,0 ± 3,0	1060	636	3200

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TYPE [mm ²]	Overall Diameter [mmØ]	Minimum bending radius		Maximum pulling tension [N]
		During Installation	Fixed Installed	
		[mm]		
4x 25/16	58.5 ± 3.0	1170	702	5000
4x 10 + E	52.5 ± 3.0	1050	630	2500
7x 1,5/6	44,5±2,5	890	536	525
12 x 1,5/10	50,0±3,0	1000	600	900
7x 2,5/6	46,0±2,5	920	552	875
8x 2,5/10	51,0±3,0	1020	612	1000
12x 2,5/10	50,5 ± 2,5	1010	606	1500
27x 1,5/16	64,5±3,5	1290	774	2025
37x 1.5/16	69.0 ± 3.5	1380	828	2775

Minimum installation temperature: - 10 °C