

BFOU P5/P12 0.6/1kV

Halogen free and/or Mud resistant power cables



Type Approval Certificates

- American Bureau of Shipping
- Det Norske Veritas
- Lloyd's Register



Conductor

according to IEC 60228

- Class 2 tinned annealed copper wire for size 10mm² and below
- Class 5 flexible conductor for size 16mm² and above

Insulation

mica tape(s) + HF-EPR according to IEC 60092-351, thickness according to IEC 60092-353

Inner Covering/Bedding

halogen free compound, indicative thickness according to IEC 60092-353 (inner covering)

Braid Armour

tinned copper wire braid according to IEC 60092-350 or IEC 60092-352 when used as earth conductor

Outer Sheath

halogen free, thermosetting compound SHF2 according to IEC 60092-359 and/or halogen free mud resistant thermosetting compound SHF MUD according to NEK 606/2004, thickness according to IEC 60092-353

Core Identification

1-core	:	black
2-core	:	blue, brown
3-core	:	brown, black, grey
4-core	:	blue, brown, black, grey
5-core	:	blue, brown, black ₁ , grey, black ₂
6-core & more	:	white with black numbering

Marking

e.g. : 0.6/1kV P5/P12 BFOU nc x sect. metric year

Applicable standards

Fire resistant	:	IEC 60331
Flame retardant	:	IEC 60332-3-22 Category A
Smoke emission	:	IEC 61034-1/20
Halogen free properties	:	IEC 60754-1/20
UV Resistance	:	UL 1581
Cold bend/impact test	:	CSA C22.2 No.38-95
Design	:	NEK 606/2004, IEC 60092-350, IEC 60092-354
Materials	:	IEC 60092-351, IEC 60092-359
Installation	:	IEC 60092-352



-40 to 90°C



Fire resistant
IEC 60331



Cold impact
CSA C22.2 No.38, -35°C
Special requirement



Halogen free



Weather
Resistance to severe
weather conditions



Chemical attacks
Resistance to
chemicals.



Mud
Resistance to
Mud



Oil
Resistance to
Enhanced oil

BFOU P5/P12 0.6/1kV

Halogen free and/or Mud resistant power cables



No. of Cores	Conductor		Insulation Thickness	Inner Covering	Outer Diameter	Cable Weight	Conductor Resistance @ 20°C	Current Rating
	Area	Overall dia.						
No.s	mm ²	mm	mm	mm	mm	kg/km	Max. Ω/km	Amp.
1	1	1.29	1.0	6.1	9.6	130	18.2	16
1	1.5	1.59	1.0	6.4	10.0	140	12.2	21
1	2.5	2.01	1.0	6.9	10.4	160	7.56	30
1	4	2.55	1.0	7.4	11.0	190	4.70	40
1	6	3.12	1.0	8.0	11.6	220	3.11	52
1	10	4.05	1.0	8.9	12.6	290	1.84	72
1	16	5.10	1.0	9.9	14.2	400	1.16	96
1	25	6.42	1.2	11.7	16.1	540	0.734	127
1	35	7.56	1.2	12.8	17.4	660	0.529	157
1	50	8.90	1.4	14.6	19.3	830	0.391	196
1	70	10.70	1.4	16.4	21.3	1090	0.270	242
1	95	12.60	1.6	18.8	23.8	1420	0.195	293
1	120	14.20	1.6	20.4	25.5	1700	0.154	339
1	150	15.80	1.8	22.4	27.8	2070	0.126	389
1	185	17.60	2.0	24.6	30.2	2500	0.100	444
1	240	20.30	2.2	28.2	34.1	3230	0.0762	522
1	300	22.70	2.4	31.0	37.6	4040	0.0607	601
2	1	1.29	1.0	10.1	14.4	280	18.2	14
2	1.5	1.59	1.0	10.7	15.1	310	12.2	20
2	2.5	2.01	1.0	11.6	16.0	370	7.56	26
2	4	2.55	1.0	12.6	17.1	440	4.70	34
2	6	3.12	1.0	13.8	18.4	520	3.11	44
2	10	4.05	1.0	15.6	20.4	680	1.84	61
2	16	5.10	1.0	17.7	22.7	880	1.16	82
2	25	6.42	1.2	21.3	26.5	1260	0.734	108
2	35	7.56	1.2	23.5	29.0	1570	0.529	133
2	50	8.90	1.4	27.5	33.3	2050	0.391	167
2	70	10.70	1.4	31.1	37.7	2820	0.270	206
2	95	12.60	1.6	35.8	42.8	3690	0.195	249
2	120	14.20	1.6	39.4	46.7	4470	0.154	288
2	150	15.80	1.8	43.5	51.1	5380	0.126	331
2	185	17.60	2.0	48.3	56.4	6610	0.100	377
2	240	20.30	2.2	54.6	63.3	8470	0.0762	444
2	300	22.70	2.4	60.3	69.4	10350	0.0607	511
3	1	1.29	1.0	10.7	15.1	294	18.2	11
3	1.5	1.59	1.0	11.4	15.8	331	12.2	16
3	2.5	2.01	1.0	12.3	16.8	387	7.56	21
3	4	2.55	1.0	13.5	18.0	466	4.70	28
3	6	3.12	1.0	14.7	19.4	575	3.11	36
3	10	4.05	1.0	16.7	21.6	776	1.84	50
3	16	5.10	1.0	19.0	24.0	1052	1.16	67
3	25	6.42	1.2	22.7	28.1	1502	0.734	89
3	35	7.56	1.2	25.2	30.8	1899	0.529	110
3	50	8.90	1.4	29.4	35.8	2638	0.391	137
3	70	10.70	1.4	33.3	40.1	3475	0.270	169
3	95	12.60	1.6	38.8	46.0	4645	0.195	205
3	120	14.20	1.6	42.2	49.7	5613	0.154	237
3	150	15.80	1.8	46.6	54.5	6785	0.126	272
3	185	17.60	2.0	51.8	60.2	8378	0.100	311
3	240	20.30	2.2	58.6	67.6	10794	0.0762	365
3	300	22.70	2.4	65.1	74.7	13344	0.0607	421

BFOU P5/P12 0.6/1kV

Halogen free and/or Mud resistant power cables



No. of Cores	Conductor		Insulation Thickness	Inner Covering	Outer Diameter	Cable Weight	Conductor Resistance @ 20°C	Current Rating
	Area	Overall dia.						
No.s	mm ²	mm	mm	mm	mm	kg/km	Max. Ω/km	Amp.
4	1	1.29	1.0	11.8	16.2	356	18.2	11
4	1.5	1.59	1.0	12.5	17.0	419	12.2	16
4	2.5	2.01	1.0	13.5	18.1	491	7.56	21
4	4	2.55	1.0	14.8	19.5	607	4.70	28
4	6	3.12	1.0	16.2	21.0	737	3.11	36
4	10	4.05	1.0	18.4	23.4	1017	1.84	50
4	16	5.10	1.0	21.0	26.2	1350	1.16	67
4	25	6.42	1.2	25.2	30.8	1937	0.734	89
4	35	7.56	1.2	28.0	33.8	2452	0.529	110
4	50	8.90	1.4	32.7	39.4	3370	0.391	137
4	70	10.70	1.4	37.0	44.1	4465	0.270	169
4	95	12.60	1.6	43.1	50.7	5973	0.195	205
4	120	14.20	1.6	46.9	54.9	7232	0.154	237
4	150	15.80	1.8	52.3	60.7	8804	0.126	272
4	185	17.60	2.0	57.7	66.6	10789	0.100	311
4	240	20.30	2.2	65.6	75.2	14031	0.0762	365
5	1	1.29	1.0	12.9	17.4	405	18.2	9
6	1	1.29	1.0	14.1	18.7	468	18.2	9
7	1	1.29	1.0	14.1	18.7	475	18.2	8
8	1	1.29	1.0	15.3	20.0	537	18.2	8
9	1	1.29	1.0	16.6	21.4	603	18.2	8
10	1	1.29	1.0	18.1	23.1	684	18.2	7
12	1	1.29	1.0	18.7	23.7	735	18.2	7
14	1	1.29	1.0	19.7	24.9	800	18.2	7
15	1	1.29	1.0	20.3	25.5	846	18.2	6
16	1	1.29	1.0	20.9	26.1	880	18.2	6
19	1	1.29	1.0	22.1	27.4	899	18.2	6
21	1	1.29	1.0	23.3	28.7	1070	18.2	6
23	1	1.29	1.0	24.5	30.1	1132	18.2	6
24	1	1.29	1.0	26.1	31.7	1268	18.2	6
27	1	1.29	1.0	26.7	32.9	1401	18.2	5
30	1	1.29	1.0	28.1	34.4	1555	18.2	5
33	1	1.29	1.0	29.3	35.7	1668	18.2	5
37	1	1.29	1.0	30.5	37.0	1784	18.2	5
44	1	1.29	1.0	34.4	41.3	2173	18.2	5

BFOU P5/P12 0.6/1kV

Halogen free and/or Mud resistant power cables



No. of Cores	Conductor		Insulation Thickness	Inner Covering	Outer Diameter	Cable Weight	Conductor Resistance @ 20°C	Current Rating
	Area	Overall dia.						
No.s	mm ²	mm	mm	mm	Approx. mm	Approx. kg/km	Max. Ω/km	Amp.
5	1.5	1.59	1.0	13.7	18.3	459	12.2	12
6	1.5	1.59	1.0	15.0	19.7	533	12.2	12
7	1.5	1.59	1.0	15.0	19.7	544	12.2	10
8	1.5	1.59	1.0	16.3	21.1	608	12.2	10
9	1.5	1.59	1.0	17.6	22.6	705	12.2	10
10	1.5	1.59	1.0	19.3	24.4	801	12.2	9
12	1.5	1.59	1.0	20.0	25.1	854	12.2	9
14	1.5	1.59	1.0	21.1	26.3	952	12.2	8
15	1.5	1.59	1.0	21.6	26.9	999	12.2	8
16	1.5	1.59	1.0	22.3	27.6	1050	12.2	8
19	1.5	1.59	1.0	23.6	29.0	1158	12.2	7
21	1.5	1.59	1.0	24.9	30.5	1239	12.2	7
23	1.5	1.59	1.0	26.2	31.9	1353	12.2	7
24	1.5	1.59	1.0	28.3	34.6	1634	12.2	7
27	1.5	1.59	1.0	28.9	35.3	1719	12.2	7
30	1.5	1.59	1.0	30.0	36.5	1841	12.2	6
33	1.5	1.59	1.0	31.3	37.8	1995	12.2	6
37	1.5	1.59	1.0	32.6	39.2	2141	12.2	6
44	1.5	1.59	1.0	36.8	43.9	2583	12.2	6
5	2.5	2.01	1.0	14.9	19.5	551	7.56	16
6	2.5	2.01	1.0	16.3	21.1	635	7.56	16
7	2.5	2.01	1.0	16.3	21.1	653	7.56	15
8	2.5	2.01	1.0	17.7	22.6	764	7.56	15
9	2.5	2.01	1.0	19.2	24.2	860	7.56	15
10	2.5	2.01	1.0	21.0	26.2	981	7.56	13
12	2.5	2.01	1.0	21.7	27.0	1060	7.56	12
14	2.5	2.01	1.0	22.9	28.3	1173	7.56	12
15	2.5	2.01	1.0	23.6	29.0	1234	7.56	12
16	2.5	2.01	1.0	24.3	29.8	1297	7.56	11
19	2.5	2.01	1.0	25.7	31.3	1415	7.56	10
21	2.5	2.01	1.0	27.5	33.8	1711	7.56	10
23	2.5	2.01	1.0	29.0	35.3	1858	7.56	10
24	2.5	2.01	1.0	30.8	37.3	2023	7.56	10
27	2.5	2.01	1.0	31.5	38.1	2176	7.56	10
30	2.5	2.01	1.0	32.7	39.4	2340	7.56	9
33	2.5	2.01	1.0	34.1	40.9	2512	7.56	9
37	2.5	2.01	1.0	35.5	42.4	2684	7.56	8
44	2.5	2.01	1.0	40.6	48.0	3378	7.56	8

BF0U P5/P12 0.6/1kV

Halogen free and/or Mud resistant power cables



No. of Cores	Conductor		Insulation Thickness	Inner Covering	Outer Diameter	Cable Weight	Conductor Resistance @ 20°C	Current Rating
	Area	Overall dia.						
No.s	mm ²	mm	mm	mm	Approx. mm	Approx. kg/km	Max. Ω/km	Amp.
2+E	25	6.42	1.2	22.5	27.8	1560	0.734	108
	16	5.10	1.0					
2+E	35	7.56	1.2	25.0	30.6	1970	0.529	133
	25	6.42	1.2					
2+E	50	8.90	1.4	29.0	35.0	2500	0.391	167
	25	6.42	1.2					
2+E	70	10.70	1.4	32.8	39.5	3350	0.270	206
	35	7.56	1.2					
2+E	95	12.60	1.6	37.7	44.9	4410	0.195	249
	50	8.90	1.4					
2+E	120	14.20	1.6	41.6	49.1	5420	0.154	288
	70	10.70	1.4					
2+E	150	15.80	1.8	46.0	53.9	6650	0.126	331
	95	12.60	1.6					
2+E	185	17.60	2.0	50.9	59.2	7930	0.100	377
	95	12.60	1.6					
2+E	240	20.30	2.2	57.4	66.3	10020	0.0762	444
	120	14.20	1.6					
3+E	25	6.42	1.2	24.1	29.6	1880	0.734	89
	16	5.10	1.0					
3+E	35	7.56	1.2	27.6	33.5	2460	0.529	110
	25	6.42	1.2					
3+E	50	8.90	1.4	31.1	37.7	3150	0.391	137
	25	6.42	1.2					
3+E	70	10.70	1.4	34.8	41.7	4100	0.270	169
	35	7.56	1.2					
3+E	95	12.60	1.6	40.5	47.9	5460	0.195	205
	50	8.90	1.4					
3+E	120	14.20	1.6	44.5	52.2	6730	0.154	237
	70	10.70	1.4					
3+E	150	15.80	1.8	50.0	58.2	8310	0.126	272
	95	12.60	1.6					
3+E	185	17.60	2.0	54.0	62.6	9790	0.100	311
	95	12.60	1.6					
3+E	240	20.30	2.2	60.7	69.8	12420	0.0762	365
	120	14.20	1.6					
4+E	25	6.42	1.2	27.4	33.2	2050	0.734	89
	16	5.10	1.0					
4+E	35	7.56	1.2	30.8	37.3	2750	0.529	110
	25	6.42	1.2					
4+E	50	8.90	1.4	34.9	41.8	3450	0.391	137
	25	6.42	1.2					
4+E	70	10.70	1.4	39.6	46.9	4600	0.270	169
	35	7.56	1.2					
4+E	95	12.60	1.6	45.6	53.40	6110	0.195	205
	50	8.90	1.4					
4+E	120	14.20	1.6	50.4	58.7	7530	0.154	237
	70	10.70	1.4					
4+E	150	15.80	1.8	56.1	64.8	9230	0.126	272
	95	12.60	1.6					
4+E	185	17.60	2.0	60.9	70.1	11030	0.100	311
	95	12.60	1.6					
4+E	240	20.30	2.2	69.0	78.9	14120	0.0762	365
	120	14.20	1.6					