

Halogen free fire resistant or/and mud resistant LV power cable



BFOU

NEK TS 606 Type
P5---Non mud resistant
P5/P12---Mud resistant

Rated voltage
0.6/1(1.2)kV---P5, P5/P12

Operating temperature:90°C

Standards applied

- NEK TS 606 – Design
- IEC 60092-353 – Design
- IEC 60228 Class2 – Conductor
- IEC 60092-360 – Insulation、 Sheath
- IEC 60332-1 – Flame Retardant
- IEC 60332-3-22 – Flame Retardant
- IEC 60331 – Fire resistant
- IEC 60754 – Halogen Free
- IEC 61034 – Low Smoke

Application





Fixed installation for lower voltage (LV) power system in both EX-and safe areas, general purposes. For installation in areas exposed to MUD and drilling/cleaning.

Construction




Components	Code	Material/Description
Conductor		Stranded tinned annealed copper (STC), IEC 60228 Class 2
Insulation	B	Mica glass tape(MGT) + EPR, IEC 60092-360
		Mica glass tape(MGT)+XLPE, IEC 60092-360
Inner covering	F	Halogen-free flame retardant compound
Armor	O	Tinned copper wire braid (TCWB)
Outer sheath	U	Halogen-free flame retardant or/and mud resistant thermoset compound (SHF2 or SHF Mud)
Outer sheath color		Black

Note: Flexible cable with Class 5 conductor available upon request.





BFOU(EPR) 0.6/1kV----P5, P5/P12

No. of cores& Cross section mm ²	Overall diameter		Approx. weight kg/km	Current ratings at 45°C A	Demonstration	
	Nom.	±				
1 x 1	9.6	0.5	122	18	 <p>Example Type: BFOU P5/P12 Size: 1x95mm²</p>	
1 x 1.5	9.9	0.5	132	23		
1 x 2.5	10.4	0.6	151	30		
1 x 4	10.9	0.6	174	40		
1 x 6	11.7	0.6	209	52		
1 x 10	12.6	0.7	263	72		
1 x 16	13.6	0.7	336	96		
1 x 25	16.1	0.9	504	127		
1 x 35	17.5	0.9	628	157		
1 x 50	19.1	1.0	787	196		
1 x 70	21.4	1.1	1041	242		
1 x 95	24.2	1.1	1377	293		
1 x 120	26.1	1.3	1661	339		
1 x 150	28.2	1.3	1987	389		
1 x 185	30.9	1.5	2436	444		
1 x 240	34.3	1.5	3100	522		
1 x 300	37.8	1.7	3873	601		
2 x 1	14.8	0.8	295	15		 <p>Example Type: BFOU P5/P12 Size: 2x70mm²</p>
2 x 1.5	15.4	0.8	324	20		
2 x 2.5	16.4	0.9	376	26		
2 x 4	17.6	0.9	445	34		
2 x 6	18.8	1.0	524	44		
2 x 10	21.1	1.1	685	61		
2 x 16	23.3	1.1	884	82		
2 x 25	27.3	1.3	1248	108		
2 x 35	30.1	1.5	1583	133		
2 x 50	33.9	1.5	2026	167		
2 x 70	38.7	1.7	2760	206	 <p>Example Type: BFOU P5/P12 Size: 2x50+1x25mm²</p>	
2x1+E	15.5	0.8	296	13		
2x1.5+E	16.1	0.9	324	16		
2x2.5+E	17.4	0.9	388	21		
2x4+E	18.5	1.0	456	28		
2x6+E	20.1	1.1	615	36		
2x10+E	22.4	1.1	817	50		
2x16+E	24.8	1.1	1085	67		
3 x 1	15.5	0.8	296	13		 <p>Example Type: BFOU P5/P12 Size: 3x120mm²</p>
3 x 1.5	16.1	0.9	324	16		
3 x 2.5	17.4	0.9	388	21		
3 x 4	18.5	1.0	456	28		
3 x 6	20.1	1.1	615	36		
3 x 10	22.4	1.1	817	50		
3 x 16	24.8	1.1	1085	67		
3 x 25	29.1	1.3	1533	89		
3 x 35	32.1	1.5	1947	110		
3 x 50	36.9	1.7	2628	137		
3 x 70	41.0	1.9	3460	169		
3 x 95	47.0	2.1	4605	205		
3 x 120	51.3	2.3	5603	237		
3 x 150	56.0	2.5	6760	272		
3 x 185	61.8	3.0	8319	311		



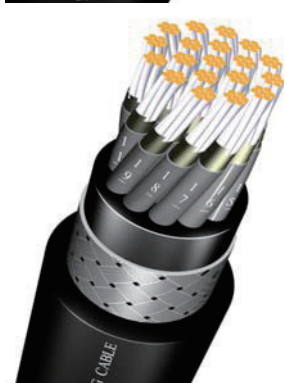

BFOU(EPR) 0.6/1kV----P5, P5/P12

No. of cores& Cross section	Overall diameter		Approx. weight	Current ratings at 45°C	Demonstration
	Nom.	±			
mm ²	mm		kg/km	A	
3x1+E	16.6	0.9	383	13	 <p>Example Type: BFOU P5/P12 Size: 3x50+1x25mm²</p>
3x1.5+E	17.5	0.9	424	16	
3x2.5+E	18.7	1.0	505	21	
3x4+E	20.3	1.1	609	28	 <p>Example Type: BFOU P5/P12 Size: 4x70mm²</p>
3x6+E	21.9	1.1	746	36	
3x10+E	24.5	1.1	999	50	
3x16+E	27.1	1.3	1326	67	
4 x 1	16.6	0.9	383	13	
4 x 1.5	17.5	0.9	424	16	
4 x 2.5	18.7	1.0	505	21	
4 x 4	20.3	1.1	609	28	 <p>Example Type: BFOU P5/P12 Size: 19x2.5mm²</p>
4 x 6	21.9	1.1	746	36	
4 x 10	24.5	1.1	999	50	
4 x 16	27.1	1.3	1326	67	
4 x 25	32.1	1.5	1920	89	
4 x 35	35.7	1.7	2480	110	
4 x 50	40.4	1.9	3281	137	
4 x 70	45.4	2.1	4366	169	
4 x 95	52.0	2.3	5878	205	
4 x 120	56.7	2.5	7132	237	
4 x 150	62.1	3.0	8643	272	
5 x 1	18.0	0.9	394	11	
7 x 1	19.2	1.0	477	9	
10 x 1	24.3	1.1	666	8	
12 x 1	25.0	1.1	742	8	
14 x 1	26.3	1.3	814	7	
16 x 1	27.5	1.3	902	7	
19 x 1	28.9	1.3	1006	7	
24 x 1	33.9	1.5	1281	6	
27 x 1	34.5	1.5	1372	6	
30 x 1	36.0	1.7	1590	6	
33 x 1	37.9	1.7	1698	6	
37 x 1	39.3	1.7	1852	5	
5 x 1.5	18.8	1.0	440	13	
7 x 1.5	20.4	1.1	536	12	
10 x 1.5	25.7	1.3	760	11	
12 x 1.5	26.4	1.3	838	10	
14 x 1.5	27.6	1.3	935	10	
16 x 1.5	29.1	1.3	1027	9	
19 x 1.5	30.8	1.5	1176	9	
24 x 1.5	36.0	1.7	1581	8	
27 x 1.5	37.4	1.7	1694	8	
30 x 1.5	38.6	1.7	1834	7	
33 x 1.5	40.1	1.9	1965	7	
37 x 1.5	41.4	1.9	2143	7	
5 x 2.5	20.4	1.1	534	18	
7 x 2.5	22.1	1.1	670	16	
10 x 2.5	27.7	1.3	937	14	
12 x 2.5	28.7	1.3	1041	13	
14 x 2.5	30.2	1.5	1183	12	
16 x 2.5	31.8	1.5	1301	12	
19 x 2.5	33.7	1.5	1495	11	
24 x 2.5	39.9	1.7	1973	10	
27 x 2.5	40.7	1.9	2125	10	
30 x 2.5	42.4	1.9	2328	10	
33 x 2.5	43.8	1.9	2517	9	
37 x 2.5	45.5	2.1	2734	9	

BFOU(XLPE) 0.6/1kV----P5, P5/P12

No. of cores& Cross section	Overall diameter		Approx. weight	Current ratings at 45°C	Demonstration	
	Nom.	±				
mm ²	mm		kg/km	A		
1 x 1	9.0	0.5	110	18	 Example Type: BFOU P5/P12 Size: 1x95mm ²	
1 x 1.5	9.3	0.5	119	23		
1 x 2.5	9.8	0.5	138	30		
1 x 4	10.3	0.6	160	40		
1 x 6	10.9	0.6	188	52		
1 x 10	12.0	0.6	247	72		
1 x 16	13.0	0.7	318	96		
1 x 25	15.5	0.8	480	127		
1 x 35	16.9	0.9	603	157		
1 x 50	18.3	1.0	748	196		
1 x 70	20.6	1.1	996	242		
1 x 95	22.9	1.1	1300	293		
1 x 120	25.2	1.3	1599	339		
1 x 150	27.1	1.3	1904	389		
1 x 185	29.9	1.3	2345	444		
1 x 240	33.3	1.5	2998	522		
1 x 300	36.9	1.7	3757	601		
2 x 1	12.9	0.7	220	15		 Example Type: BFOU P5/P12 Size: 2x70mm ²
2 x 1.5	13.5	0.7	245	20		
2 x 2.5	15.2	0.8	333	26		
2 x 4	16.2	0.9	391	34		
2 x 6	17.6	0.9	475	44		
2 x 10	19.7	1.0	621	61		
2 x 16	21.9	1.1	813	82		
2 x 25	26.1	1.3	1175	108		
2 x 35	28.7	1.3	1477	133		
2 x 50	31.9	1.5	1876	167		
2 x 70	37.3	1.7	2639	206	 Example Type: BFOU P5/P12 Size: 2x50+1x25mm ²	
2 x 95	41.7	1.9	3419	249		
2 x 120	45.7	2.1	4165	288		
2x1+E	13.5	0.7	219	13		
2x1.5+E	14.8	0.8	284	16		
2x2.5+E	15.9	0.8	338	21		
2x4+E	17.2	0.9	411	28		
2x6+E	18.5	1.0	546	36		
2x10+E	20.9	1.1	740	50		
2x16+E	23.3	1.1	989	67		
3 x 1	13.5	0.7	219	13	 Example Type: BFOU P5/P12 Size: 3x120mm ²	
3 x 1.5	14.8	0.8	284	16		
3 x 2.5	15.9	0.8	338	21		
3 x 4	17.2	0.9	411	28		
3 x 6	18.5	1.0	546	36		
3 x 10	20.9	1.1	740	50		
3 x 16	23.3	1.1	989	67		
3 x 25	27.8	1.3	1442	89		
3 x 35	30.8	1.5	1847	110		
3 x 50	34.2	1.5	2361	137		
3 x 70	39.7	1.7	3308	169		
3 x 95	44.4	1.9	4325	205		
3 x 120	48.9	2.1	5316	237		
3 x 150	53.8	2.3	6461	272		
3 x 185	59.6	2.5	7978	311		

BFOU(XLPE) 0.6/1kV----P5, P5/P12

No. of cores& Cross section mm ²	Overall diameter		Approx. weight kg/km	Current ratings at 45°C A	Demonstration
	Nom.	±			
3x1+E	15.2	0.8	317	13	 <p>Example Type: BFOU P5/P12 Size: 3x50+1x25mm²</p>
3x1.5+E	15.9	0.8	355	16	
3x2.5+E	17.3	0.9	438	21	
3x4+E	18.5	1.0	531	28	 <p>Example Type: BFOU P5/P12 Size: 4x70mm²</p>
3x6+E	20.3	1.1	659	36	
3x10+E	22.8	1.1	904	50	
3x16+E	25.7	1.3	1230	67	
4 x 1	15.2	0.8	317	13	
4 x 1.5	15.9	0.8	355	16	
4 x 2.5	17.3	0.9	438	21	 <p>Example Type: BFOU P5/P12 Size: 19x2.5mm²</p>
4 x 4	18.5	1.0	531	28	
4 x 6	20.3	1.1	659	36	
4 x 10	22.8	1.1	904	50	
4 x 16	25.7	1.3	1230	67	
4 x 25	30.6	1.5	1803	89	
4 x 35	33.9	1.5	2320	110	
4 x 50	38.3	1.7	3087	137	
4 x 70	43.7	1.9	4193	169	
4 x 95	48.9	2.1	5475	205	
4 x 120	54.3	2.3	6796	237	
4 x 150	59.5	2.5	8233	272	
5 x 1	16.2	0.9	327	11	
7 x 1	17.4	0.9	391	9	
10 x 1	21.5	1.1	533	8	
12 x 1	22.1	1.1	591	8	
14 x 1	23.2	1.1	644	7	
16 x 1	24.5	1.1	711	7	
19 x 1	25.7	1.3	798	7	
24 x 1	29.5	1.3	977	6	
27 x 1	30.3	1.5	1069	6	
30 x 1	31.4	1.5	1144	6	
33 x 1	32.5	1.5	1218	6	
37 x 1	33.9	1.5	1345	5	
5 x 1.5	17.2	0.9	377	13	
7 x 1.5	18.3	1.0	445	12	
10 x 1.5	22.9	1.1	620	11	
12 x 1.5	23.5	1.1	677	10	
14 x 1.5	24.7	1.1	767	10	
16 x 1.5	26.1	1.3	835	9	
19 x 1.5	27.2	1.3	929	9	
24 x 1.5	31.7	1.5	1171	8	
27 x 1.5	32.3	1.5	1252	8	
30 x 1.5	33.7	1.5	1374	7	
33 x 1.5	34.9	1.5	1468	7	
37 x 1.5	36.5	1.7	1708	7	
5 x 2.5	18.5	1.0	459	18	
7 x 2.5	20.1	1.1	561	16	
10 x 2.5	25.3	1.3	797	14	
12 x 2.5	26.0	1.3	879	13	
14 x 2.5	27.1	1.3	970	12	
16 x 2.5	28.6	1.3	1079	12	
19 x 2.5	30.1	1.5	1237	11	
24 x 2.5	35.1	1.7	1540	10	
27 x 2.5	36.1	1.7	1778	10	
30 x 2.5	37.9	1.7	1909	10	
33 x 2.5	39.4	1.7	2064	9	
37 x 2.5	40.7	1.9	2235	9	