



BFOU P5/P12 & BFOU EMC

EPR/EPR/TCWB/EVA

0.6/1 (1.2) kV

NEK TS 606 Code P5/P12, IEC 60092-353-Design guidelines

Fire resistant, flame retardant halogen-free power cable. Mud resistant

CONSTRUCTION

	Code letter	
Conductor		Tinned annealed stranded circular copper conductor, IEC 60228 class 2 or class 5
Insulation	B	Mica tape + EP-rubber thermosetting compound, IEC 60092-360 (EPR)
Core identification		Accordance to HD308 S2 Single core: Black Two cores: Blue, brown Three cores: Brown, black, grey or green/yellow, blue, brown Four cores: Blue, brown, black, grey or green/yellow, brown, black, grey Five cores: Blue, brown, black, grey, black or green/yellow, blue, brown, black, grey Multi-cores: White with black numbers
Lay up/Shielding		Cores laid up in concentric layers
Inner covering	F	Flame retardant and halogen-free thermosetting compound
Armour/screen	O	PET tape & Tinned annealed copper wire braid
For EMC cable		Cu/PET tape under the braid
Separator		Separator, suitable tape between the braid and outer sheath
Outer sheath	U	Flame retardant, halogen-free, heat-resistant, oil-resisting and mud resistant thermosetting compound type SHF2 acc. to IEC 60092-360
Outer sheath colour		Black
Standard marking		TF KABLE 3 BFOU 0.6/1 KV P5/P12 (SIZE) IEC 60331-21 IEC 60332-3-22



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CHARACTERISTIC

Maximum conductor operating temperature:	+90°C	
Maximum conductor temperature during short circuit:	+250°C	
Lowest ambient temperature for fixed installation:	-40°C	
Lowest installation temperature:	-15°C	
Oil resistance:	IEC 60092-360 SHF2. I RM 902 (100°C /24 h)	
Mud resistance:	NEK 606 (SHF MUD. SHF2)	
Minimum bending radius :	Overall diameter of cable (D)	Minimum bending radius
	D < 25 mm	4 D
	D > 25 mm	6 D
	D – overall diameter of cable	

Fire performance

Flame retardant:	IEC 60332-3-22 (Category A)
Fire resistant:	IEC 60331
Smoke emission:	IEC 61034-2
Corrosive gas emission:	IEC 60754-1

Applications

- Fixed installation for power control and lighting in both EX- and safe areas emergency and critical systems where requirement for fire resistant exists
- For installation in areas exposed to MUD and drilling/cleaning fluids
- Meets the MUD resistance requirement in NEK TS 606:2009
- For fixed wiring installations on Oil and Gas Rigs. Shipboard and other marine applications requiring screened cable for EMC
- Other industrial applications

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Approvals

DNV-GL, ABS

Details related to particular Approvals are informative only. Please contact manufacturer to confirm whether the required cross-sections are covered by the Certificate.

Standard length cable packing:

1,000 m on drums

Other forms of packing and delivery are available on request

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Size	Insulation thickness	Thickness inner covering	Diameter of braid wire	Thickness outer covering	Approximate outer diameter	Approximate weight of cable
N × mm ²	mm	mm	mm	mm	mm	kg/km
1 × 16/4 *	1	1.1	0.2	1.2	13.4	362
1 × 25/6 *	1.2	1.1	0.3	1.3	15.7	534
1 × 35/6 *	1.2	1.1	0.3	1.3	16.9	654
1 × 50/10 *	1.4	1.1	0.3	1.4	18.6	801
1 × 70/10 *	1.4	1.1	0.3	1.4	20.3	1,010
1 × 95/10 *	1.6	1.1	0.3	1.5	22.9	1,342
1 × 120/10 *	1.6	1.2	0.3	1.6	24.8	1,600
1 × 150/10 *	1.8	1.2	0.3	1.7	26.9	1,922
1 × 185/10 *	2	1.2	0.3	1.7	29.1	2,323
1 × 240/16 *	2.2	1.2	0.3	1.8	32.3	2,946
1 × 300/16 *	2.4	1.2	0.3	1.9	35.3	3,586
2 × 1.5/4 *	1	1.1	0.2	1.2	14.2	279
2 × 2.5/6 *	1	1.1	0.3	1.3	15.6	364
2 × 4/6	1	1.1	0.3	1.3	16.7	429
2 × 6/6	1	1.1	0.3	1.4	18	512
2 × 10/10	1	1.1	0.3	1.4	19.8	650
2 × 16/16	1	1.1	0.4	1.5	22.8	926
2 × 25/16	1.2	1.2	0.4	1.6	26.7	1,296
2 × 35/16 *	1.2	1.2	0.3	1.7	28.8	1,539
2 × 50/25	1.4	1.4	0.4	1.8	32.8	2,015
2 × 70/35	1.4	1.6	0.5	2	37.6	2,842
3G1.5	1	1.1	0.3	1.3	15.4	349
3 × 1.5/6	1	1.1	0.3	1.3	15.4	361
3G2.5	1	1.1	0.3	1.3	16.4	404

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3 × 2.5/6	1	1.1	0.3	1.3	16.4	409
3 × 4/6	1	1.1	0.3	1.3	17.5	484
3 × 6/6	1	1.1	0.3	1.4	18.9	585
3 × 10/10	1	1.1	0.3	1.5	21.1	768
3 × 16/16	1	1.1	0.4	1.5	24	1,096
3 × 25/16	1.2	1.2	0.3	1.7	28	1,497
3G35	1.2	1.2	0.3	1.8	30.6	1,898
3 × 35/16 *	1.2	1.2	0.3	1.8	30.6	1,926
3 × 50/25	1.4	1.2	0.4	1.9	34.5	2,476
3 × 70/35	1.4	1.4	0.5	2	39.2	3,361
3 × 95/50	1.6	1.4	0.5	2.2	44.8	4,589
3 × 120/70	1.6	1.4	0.5	2.4	48.5	5,447
3 × 185/95	2	2	0.5	3	59.7	6,030
4 × 1.5/6	1	1.1	0.3	1.3	16.6	450
4G1.5	1	1.1	0.3	1.3	16.6	420
4 × 2.5/6	1	1.1	0.3	1.3	17.6	480
4G2.5	1	1.1	0.3	1.3	17.6	460
4 × 4/6	1	1.1	0.3	1.4	19.1	610
4G4	1	1.1	0.3	1.4	19.1	660
4 × 6/6	1	1.1	0.3	1.4	20.4	770
4G6	1	1.1	0.3	1.4	20.4	720
4 × 10/10	1	1.1	0.3	1.5	22.8	990
4G10	1	1.1	0.3	1.5	22.8	990
4 × 16/16	1	1.2	0.4	1.6	26.4	1,420
4G16	1	1.2	0.3	1.6	26	1,330
4 × 25/16	1.2	1.2	0.3	1.7	29	1,970
4G25	1.2	1.2	0.3	1.7	29	1,930
4 × 35/16 *	1.2	1.2	0.3	1.9	33.5	2,490
4G35	1.2	1.2	0.3	1.9	33.5	2,470
4 × 50/25	1.4	1.4	0.4	2	38.5	3,380
4G50	1.4	1.4	0.3	2	38	3,290
4 × 70/35	1.4	1.4	0.4	2.2	43	4,610
4G70	1.4	1.4	0.4	2.2	43	4,520
4 × 95/50	1.6	1.6	0.5	2.4	49.8	6,150

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4G95	1.6	1.6	0.4	2.4	49.4	5,900
4 × 120/70	1.6	1.6	0.5	2.5	52.8	7,470
4G120	1.6	1.6	0.4	2.5	54	7,180
4G150	1.8	1.6	0.5	2.7	59	8,910
4G185	2	1.8	0.4	2.9	64.8	10,830
5G1.5	1	1.1	0.3	1.4	18	454
5 × 1.5/6	1	1.1	0.3	1.4	18	460
5G2.5	1	1.1	0.3	1.4	19.1	475
5 × 2.5/6	1	1.1	0.3	1.4	19.1	487
5G4	1	1.1	0.3	1.4	20.5	651
5G6	1	1.1	0.3	1.5	22.3	798
5G10	1	1.2	0.3	1.6	25.1	1,085
5G16	1	1.2	0.3	1.7	28.5	1,510
5G25	1.2	1.2	0.3	1.8	33.4	2,172
5G35	1.2	1.4	0.3	2	37.3	2,825
5G50	1.4	1.4	0.4	2.2	42.2	3,651
5G70	1.4	1.4	0.4	2.3	47.1	4,845
5G95	1.6	1.6	0.5	2.6	54	7,140
7 × 1.5/6	1	1.1	0.3	1.4	17	540
7 × 2.5/6	1	1.1	0.3	1.4	22	630
12 × 1.5/10	1	1.2	0.3	1.6	21.5	810
12 × 2.5/10	1	1.2	0.3	1.6	25.5	990
19 × 1.5/10	1	1.2	0.3	1.7	25	1,100
19 × 2.5/16	1	1.2	0.3	1.8	30	1,370
27 × 1.5/16	1	1.4	0.3	2	34.7	1,565
27 × 2.5/25	1	1.4	0.3	2	37.3	1,994
37 × 1.5/16	1	1.4	0.3	2	39.6	1,987
37 × 2.5/25	1	1.4	0.4	2.2	43.5	2,628

* Braid cannot be used as protective earth conductor

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Without approvals

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N × mm ²	mm	mm	mm	mm	mm	kg/km
2 × 240/120**	2.2	1.5	0.5	2.8	63.3	8,525
3G1	1	1.1	0.2	1.2	14.3	269
3G150	1.8	1.5	0.4	2.5	52.8	6,357
3 × 150/70	1.8	1.5	0.5	2.6	53.4	6,752
3G300	2.4	1.7	0.4	3.2	71.9	12,226
4G1	1	1.1	0.3	1.3	16.0	371
4 × 240/120**	2.2	1.7	0.5	3.2	74.9	13,816
4G300	2.4	1.7	0.4	3.4	79.5	15,482
5G150	1.8	1.7	0.4	2.9	64.9	9,776
7G1.5	1	1.1	0.3	1.5	20.9	585
9 × 1.5/10	1	1.1	0.3	1.5	23.5	700
10G1.5	1	1.1	0.3	1.6	24.1	764
20 × 2.5/16	1	1.2	0.3	1.8	32.5	1,492
24G2.5	1	1.3	0.3	2	36.4	1,792

** Double braided