



BFOU P105 & BFOU EMC 600/1000 (1200) V BFOU P5/P12 & BFOU EMC 600/1000 (1200) V EPR/EVA/TCWB/EVA

NEK TS 606:2016, Code P105, NEK TS 606:2009, Code P5/P12, IEC 60092-353- Design guidelines, IEC 60228 conductor, IEC 60092-360 Insulating material, IEC 60092-360 Sheathing materials, IEC 60332-1-2, IEC 60332-3-22 Flame retardant, IEC 60331 Fire resistant, IEC 60754-1.2 Halogen free, IEC 61034-1.2 Low Smoke

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

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

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)



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	Code letter	
Core identification		Accordance to HD308 S2 Single core - Black Two core - 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	Polyester 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 color		Black

Features

Maximum conductor operating temperature: +90°C	Flame retardant: IEC 60332-3-22 (Category A)
Maximum conductor temperature during short circuit: +250°C	Fire resistant: IEC 60331
Lowest ambient temperature for fixed installation: -40°C	Smoke emission: IEC 61034-2
Lowest installation temperature: -15°C	Corrosive gas emission: IEC 60754-1
Minimum bending radius:	Oil resistance: IEC 60092-360 SHF2, IRM 902 (100°C/24h)
Overall diameter of cable (D)	Mud resistance: NEK 606 (SHF MUD, SHF2)
< 25 mm	4 D
> 25 mm	6 D
D – overall diameter of cable	

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Approvals

ABS Certificate No:	20-GD1953781-PDA					
Standard length cable packing	1000m on drums. Other forms of packing and delivery are available on request					
Size	Insulation thickness	Thickness Inner covering	Diameter of braid wire	Thickness Outer covering	Approx.Outer Diameter	Approx. weight of cable
N x mm²	mm	mm	mm	mm	mm	kg/km
1x16/4*	1	1.1	0.2	1.2	13.4	362
1x25/6*	1.2	1.1	0.3	1.3	15.7	534
1x35/6*	1.2	1.1	0.3	1.3	16.9	654
1x50/10*	1.4	1.1	0.3	1.4	18.6	801
1x70/10*	1.4	1.1	0.3	1.4	20.3	1010
1x95/10*	1.6	1.1	0.3	1.5	22.9	1342
1x120/10*	1.6	1.2	0.3	1.6	24.8	1600
1x150/10*	1.8	1.2	0.3	1.7	26.9	1922
1x185/10*	2	1.2	0.3	1.7	29.1	2323
1x240/16*	2.2	1.2	0.3	1.8	32.3	2946
1x300/16*	2.4	1.2	0.3	1.9	35.3	3586
2x1.5/4*	1	1.1	0.2	1.2	14.2	279
2x2.5/6*	1	1.1	0.3	1.3	15.6	364
2x4/6	1	1.1	0.3	1.3	16.7	429
2x6/6	1	1.1	0.3	1.4	18	512
2x10/10	1	1.1	0.3	1.4	19.8	650

BFOU P105 & BFOU EMC BFOU P5/P12 & BFOU EMC EPR/EVA/TCWB/EVA

Size	Insulation thickness	Thickness Inner covering	Diameter of braid wire	Thickness Outer covering	Approx. Outer Diameter	Approx. weight of cable
N x mm²	mm	mm	mm	mm	mm	kg/km
2x16/16	1	1.1	0.4	1.5	22.8	926
2x25/16	1.2	1.2	0.4	1.6	26.7	1296
2x35/16*	1.2	1.2	0.3	1.7	28.8	1539
2x50/25	1.4	1.4	0.4	1.8	32.8	2015
2x70/35	1.4	1.6	0.5	2	37.6	2842
3G1.5	1	1.1	0.3	1.3	15.4	349
3x1.5/6	1	1.1	0.3	1.3	15.4	361
3G2.5	1	1.1	0.3	1.3	16.4	404
3x2.5/6	1	1.1	0.3	1.3	16.4	409
3x4/6	1	1.1	0.3	1.3	17.5	484
3x6/6	1	1.1	0.3	1.4	18.9	585
3x10/10	1	1.1	0.3	1.5	21.1	768
3x16/16	1	1.1	0.4	1.5	24	1096
3x25/16	1.2	1.2	0.3	1.7	28	1497
3G35	1.2	1.2	0.3	1.8	30.6	1898
3x35/16*	1.2	1.2	0.3	1.8	30.6	1926
3x50/25	1.4	1.2	0.4	1.9	34.5	2476
3x70/35	1.4	1.4	0.5	2	39.2	3361
3x95/50	1.6	1.4	0.5	2.2	44.8	4589
3x120/70	1.6	1.4	0.5	2.4	48.5	5447
3x185/95	2	2	0.5	3	59.7	6030
4x1.5/6	1	1.1	0.3	1.3	16.6	450

BFOU P105 & BFOU EMC BFOU P5/P12 & BFOU EMC EPR/EVA/TCWB/EVA

Size	Insulation thickness	Thickness Inner covering	Diameter of braid wire	Thickness Outer covering	Approx.Outer Diameter	Approx. weight of cable
N x mm²	mm	mm	mm	mm	mm	kg/km
4G1.5	1	1.1	0.3	1.3	16.6	420
4x2.5/6	1	1.1	0.3	1.3	17.6	480
4G2.5	1	1.1	0.3	1.3	17.6	460
4x4/6	1	1.1	0.3	1.4	19.1	610
4G4	1	1.1	0.3	1.4	19.1	660
4x6/6	1	1.1	0.3	1.4	20.4	770
4G6	1	1.1	0.3	1.4	20.4	720
4x10/10	1	1.1	0.3	1.5	22.8	990
4G10	1	1.1	0.3	1.5	22.8	990
4x16/16	1	1.2	0.4	1.6	26.4	1420
4G16	1	1.2	0.3	1.6	26	1330
4x25/16	1.2	1.2	0.3	1.7	29	1970
4G25	1.2	1.2	0.3	1.7	29	1930
4x35/16*	1.2	1.2	0.3	1.9	33.5	2490
4G35	1.2	1.2	0.3	1.9	33.5	2470
4x50/25	1.4	1.4	0.4	2	38.5	3380
4G50	1.4	1.4	0.3	2	38	3290
4x70/35	1.4	1.4	0.4	2.2	43	4610
4G70	1.4	1.4	0.4	2.2	43	4520
4x95/50	1.6	1.6	0.5	2.4	49.8	6150
4G95	1.6	1.6	0.4	2.4	49.4	5900
4x120/70	1.6	1.6	0.5	2.5	52.8	7470

BFOU P105 & BFOU EMC BFOU P5/P12 & BFOU EMC EPR/EVA/TCWB/EVA

Size	Insulation thickness	Thickness Inner covering	Diameter of braid wire	Thickness Outer covering	Approx.Outer Diameter	Approx. weight of cable
N x mm²	mm	mm	mm	mm	mm	kg/km
4G120	1.6	1.6	0.4	2.5	54	7180
4G150	1.8	1.6	0.5	2.7	59	8910
4G185	2	1.8	0.4	2.9	64.8	10830
5G1.5	1	1.1	0.3	1.4	18	454
5x1.5/6	1	1.1	0.3	1.4	18	460
5G2.5	1	1.1	0.3	1.4	19.1	475
5x2.5/6	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	1085
5G16	1	1.2	0.3	1.7	28.5	1510
5G25	1.2	1.2	0.3	1.8	33.4	2172
5G35	1.2	1.4	0.3	2	37.3	2825
5G50	1.4	1.4	0.4	2.2	42.2	3651
5G70	1.4	1.4	0.4	2.3	47.1	4845
5G95	1.6	1.6	0.5	2.6	54	7140
7x1.5/6	1	1.1	0.3	1.4	17	540
7x2.5/6	1	1.1	0.3	1.4	22	630
12x1.5/10	1	1.2	0.3	1.6	21.5	810
12x2.5/10	1	1.2	0.3	1.6	25.5	990
19x1.5/10	1	1.2	0.3	1.7	25	1100
19x2.5/16	1	1.2	0.3	1.8	30	1370

BFOU P105 & BFOU EMC BFOU P5/P12 & BFOU EMC EPR/EVA/TCWB/EVA

Size	Insulation thickness	Thickness Inner covering	Diameter of braid wire	Thickness Outer covering	Approx. Outer Diameter	Approx. weight of cable
N x mm²	mm	mm	mm	mm	mm	kg/km
27x1.5/16	1	1.4	0.3	2	34.7	1565
27x2.5/25	1	1.4	0.3	2	37.3	1994
37x1.5/16	1	1.4	0.3	2	39.6	1987
37x2.5/25	1	1.4	0.4	2.2	43.5	2628

*) Braid cannot be used as protective earth conductor

Without approvals

Size	Insulation thickness	Thickness Inner covering	Diameter of braid wire	Thickness Outer covering	Approx. Outer Diameter	Approx. weight of cable
N x mm²	mm	mm	mm	mm	mm	kg/km
2x240/120**	2.2	1.5	0.5	2.8	63.3	8525
3G1	1	1.1	0.2	1.2	14.3	269
3G150	1.8	1.5	0.4	2.5	52.8	6357
3x150/70	1.8	1.5	0.5	2.6	53.4	6752
3G300	2.4	1.7	0.4	3.2	71.9	12226
4G1	1	1.1	0.3	1.3	16.0	371
4x240/120**	2.2	1.7	0.5	3.2	74.9	13816
4G300	2.4	1.7	0.4	3.4	79.5	15482
5G150	1.8	1.7	0.4	2.9	64.9	9776
7G1.5	1	1.1	0.3	1.5	20.9	585
9x1.5/10	1	1.1	0.3	1.5	23.5	700

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Size	Insulation thickness	Thickness Inner covering	Diameter of braid wire	Thickness Outer covering	Approx. Outer Diameter	Approx. weight of cable
N x mm²	mm	mm	mm	mm	mm	kg/km
10G1.5	1	1.1	0.3	1.6	24.1	764
20x2.5/16	1	1.2	0.3	1.8	32.5	1492
24G2.5	1	1.3	0.3	2	36.4	1792

**) double braided

Standard Print Legend

acc. to NEK TS 606:2016

TF KABLE 3 BFOU 0,6/1KV P105 (SIZE) IEC 60331-21 IEC 60332-3-22

acc. to NEK TS 606:2009

TF KABLE 3 BFOU 0,6/1KV P5/P12 (SIZE) IEC 60331-21 IEC 60332-3-22

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