

# 0.6/1kV BFOU 1C,2C,3C,4C [P5], [P5/P12]

## Contact

Nexans Offshore Cable  
Ju-Yong.PARK@nexans.com

- Power circuit below 1kV, Fire fighting circuit and safety systems.
- Fixed installation power, control & lighting in both explosion and safe areas, emergency and critical systems.
- Maximum operating conductor temperature 90°C

## DESCRIPTION

### Construction Details

- Conductor : Circular tinned stranded copper as per IEC 60228, Class 2
- Fire proof layer : Mica/Glass tape
- Insulation : Halogen Free Ethylene Propylene Rubber
- Cabling (with filler)
- Inner covering : Halogen free thermosetting compound
- Armour : Copper wire braid
- Outer sheath : Halogen-free thermosetting compound, SHF2 or SHF Mud

### Standard Applied

- Design guideline : NEK 606-2009 & IEC 60092-353
- Material  
Insulation : HF-EPR as per IEC 60092-351  
Sheath : SHF2 as per IEC 60092-359
- Flame retardant : IEC 60332-3-22, Cat.A
- Fire resistant : IEC 60331(-21/-31/-1/-2), 830°C for 120 Min.
- Halogen free properties : IEC 60754-1,2
- Low smoke properties : IEC 61034-1,2
- Mud resistant : NEK 606-2009
- Cold properties : CSA C22.2
- Sunlight resistance : UL 1581

### Identification of color

- Insulation  
1C : Grey  
2C : Grey, Black  
3C : Grey, Black, Red  
3G : Grey, Black, Green/Yellow stripe  
4C : Grey, Black, Red, Blue  
4G : Grey, Black, Red, Green/Yellow stripe  
Note) Any other colors is applicable in accordance with the CENELEC Harmonization Document HD 308 S2

- Outer sheath : Black  
Note) Any other colors purchaser required

### Type approval

- ABS, BV, DNV, LR



## STANDARDS

**International** IEC 60092-351;  
IEC 60092-353; IEC 60092-359;  
IEC 60331; IEC 60332-3 Cat.A;  
IEC 60754-1; IEC 61034;  
IEC 61034-2

**National** NEK 606



Rated Voltage Uo/U (Um)  
0.6/ 1 (1.2) kV

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## CHARACTERISTICS

### Electrical characteristics

Rated Voltage U<sub>0</sub>/U (Um)

0.6/ 1 (1.2) kV

Nb. of cores	Cross section [mm <sup>2</sup> ]	Av. insul. thickness [mm]	Inner sheath thick. [mm]	Diam. over inner sheath [mm]	Diam. over armour [mm]	Average sheath thickness [mm]	Nom. outer diam. [mm]	Approx. weight [kg/km]
1	1	1.0	1.0	5.5	6.6	1.1	9.0	130
1	1.5	1.0	1.0	5.8	6.9	1.1	9.3	145
1	2.5	1.0	1.0	6.2	7.3	1.1	9.7	160
1	4	1.0	1.0	6.8	7.9	1.1	10.4	220
1	6	1.0	1.0	7.3	8.4	1.1	10.9	250
1	10	1.0	1.0	8.3	9.4	1.2	12.1	320
1	16	1.0	1.0	9.3	10.4	1.2	13.1	400
1	25	1.2	1.0	11	12.7	1.3	15.5	590
1	35	1.2	1.0	12.3	13.9	1.4	17.0	720
1	50	1.4	1.0	13.9	15.6	1.4	18.6	890
1	70	1.4	1.0	15.7	17.5	1.5	20.6	1140
1	95	1.6	1.0	18	19.8	1.6	23.1	1470
1	120	1.6	1.0	19.6	21.4	1.7	24.9	1760
1	150	1.8	1.0	21.6	23.4	1.7	26.9	2090
1	185	2.0	1.0	23.8	25.6	1.8	29.3	2530
1	240	2.2	1.2	27.2	29.1	2.0	33.1	3250
1	300	2.4	1.2	30	32.3	2.1	36.1	3950
2	1	1.0	1.0	9.4	10.5	1.2	13.2	310
2	1.5	1.0	1.0	10	11.1	1.2	13.8	340
2	2.5	1.0	1.0	10.8	12.4	1.3	15.3	440
2	4	1.0	1.0	12	13.6	1.3	16.5	520
2	6	1.0	1.0	13	14.6	1.4	17.7	610
2	10	1.0	1.0	15	16.6	1.5	19.9	790
2	16	1.0	1.0	17	18.6	1.5	21.9	1000
2	25	1.2	1.0	20.4	22.2	1.7	25.7	1400
2	35	1.2	1.0	23	24.6	1.8	28.5	1740
2	50	1.4	1.0	26.2	28.0	1.9	31.9	2200
2	70	1.4	1.2	30.1	32.6	2.1	36.6	2990



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2	95	1.6	1.2	34.7	37.2	2.3	41.6	3910
2	120	1.6	1.4	38.2	40.6	2.4	45.3	4710
2	150	1.8	1.4	42.2	44.6	2.6	49.7	5670
2	185	2.0	1.4	46.6	49.0	2.7	54.3	6840
2	240	2.2	1.6	53.2	55.6	3.0	61.5	8790
2	300	2.4	1.6	59.2	61.2	3.2	67.8	10630
3	1	1.0	1.0	10	11.1	1.2	13.8	340
3	1.5	1.0	1.0	10.7	12.3	1.3	15.2	430
3	2.5	1.0	1.0	11.5	13.1	1.3	16.0	490
3	4	1.0	1.0	12.8	14.4	1.4	17.5	590
3	6	1.0	1.0	13.9	15.5	1.4	18.6	700
3	10	1.0	1.0	16	17.6	1.5	20.9	920
3	16	1.0	1.0	18.2	19.8	1.6	23.3	1200
3	25	1.2	1.0	21.9	23.7	1.7	27.2	1680
3	35	1.2	1.0	24.7	26.3	1.9	30.4	2130
3	50	1.4	1.2	28.4	30.3	2.0	34.3	2750
3	70	1.4	1.2	32.3	34.8	2.2	39.0	3700
3	95	1.6	1.4	37.5	40.0	2.4	44.6	4900
3	120	1.6	1.4	41	43.4	2.5	48.3	5900
3	150	1.8	1.4	45.3	47.7	2.7	53.0	7120
3	185	2.0	1.6	50.4	52.9	2.9	58.5	8740
3	240	2.2	1.6	57.1	59.6	3.2	65.8	11170
3	300	2.4	1.8	63.5	65.8	3.4	72.6	13740
4	1	1.0	1.0	11	12.6	1.3	15.5	440
4	1.5	1.0	1.0	11.7	13.3	1.3	16.2	480
4	2.5	1.0	1.0	12.7	14.3	1.4	17.4	570
4	4	1.0	1.0	14.2	15.8	1.4	18.9	700
4	6	1.0	1.0	15.4	17.0	1.5	20.3	830
4	10	1.0	1.0	17.8	19.4	1.6	22.9	1110
4	16	1.0	1.0	20.2	21.8	1.7	25.5	1460
4	25	1.2	1.0	24.3	26.1	1.8	29.8	2070
4	35	1.2	1.2	27.7	29.4	2.0	33.6	2660
4	50	1.4	1.2	31.6	33.9	2.1	38.1	3500
4	70	1.4	1.2	35.9	38.5	2.3	42.8	4580



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4	95	1.6	1.4	41.8	44.3	2.6	49.3	6130
4	120	1.6	1.4	45.7	48.1	2.7	53.4	7410
4	150	1.8	1.6	50.9	53.4	2.9	59.0	9010
4	185	2.0	1.6	56.2	58.7	3.1	64.7	11000
4	240	2.2	1.8	64	66.4	3.4	73.1	14160
4	300	2.4	1.8	71.1	73.1	3.7	80.7	17550



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