

# Becatech

Interconnective Power



## Fire resistant offshore power cable (BFOU 0.6/1kV)

### Cable Structure :

Conductor: tinned annealed stranded circular copper according to IEC 60228 (class 2).

Insulation: mica-tape + EP-rubber according to IEC 60092-360.

Inner covering: flame retardant and halogen free thermoset compound.

Taping: PET tape.

Armour: tinned annealed copper wire braid.

Outer sheath: SHF2 according to IEC 60092-360.

Core identification:

- Two cores: black.
- Three cores: blue, brown.
- Four cores: blue, brown, black, grey.
- Five cores: blue, brown, black, grey, black.
- Seven cores and above: white with black numbers.
- Two cores + earth (3G): yellow/green, blue, brown.
- Three cores + earth (4G): yellow/green, brown, black, grey.
- Four cores + earth (5G): yellow/green, blue, brown, black, grey.

### Technical Specification :

Rated conductor temperature: 90°C.

Rated bending radius during installation: 8 x  $\phi$ .

Rated bending radius fixed installation: 6 x  $\phi$ .

Fire behaviour:

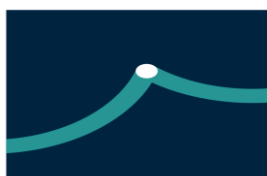
- Flame retardant according to IEC 60332-1-2.
- Fire retardant according to IEC 60332-3-22.
- Halogen free according to IEC 60754-1, (2).
- Low smoke according to IEC 61034-1, (2).

### Application :

Becatech B.V.  
Middenweg 18  
3930 Hamont-Achel

info@becatech.be  
www.becatech.be  
+32 (0)11 19 29 45

IBAN BE89363217265185  
VAT BE0777.903.079  
CoC 0777.903.079



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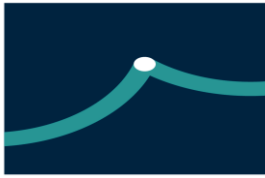
Fixed installation for power, control and lightning in both EX (zone 0,1,2) and safe areas, emergency and critical systems where requirement for fire resistance exists.

Core x mm <sup>2</sup>	Conductor diameter mm	Insulation Thickness mm	Diameter Under Armour mm	Overall Diameter mm	Weight (kg/km)
1x16	4.8	1.0	10.8	15.0	437
1x25	6.3	1.2	12.4	17.2	597
1x35	7.1	1.2	13.5	18.5	730
1x50	8.3	1.4	14.9	20.3	927
1x70	10.0	1.4	17.0	22.6	1187
1x95	11.7	1.6	18.6	24.4	1487
1x120	13.0	1.6	20.0	26.0	1773
1x150	14.3	1.8	21.9	28.1	2139
1x185	16.3	2.0	24.0	30.4	2563
1x240	18.7	2.2	27.1	33.7	3232
1x300	21.7	2.4	29.8	36.6	3921
2x1.5	1.6	1.0	11.2	15.5	353
2x2.5	2.0	1.0	12.3	16.5	411
2x4	2.6	1.0	13.9	18.1	501
2x6	3.2	1.0	14.9	19.3	589
2x10	3.8	1.0	16.3	21.6	794
2x16	4.8	1.0	18.5	24.3	1037
3x1.5	1.6	1.0	11.9	16.1	389
3g1.5	1.6	1.0	11.9	16.1	389
3x2.5	2.0	1.0	13.0	17.2	458
3g2.5	2.0	1.0	13.0	17.2	458
3x4	2.6	1.0	14.7	19.0	565
3x6	3.2	1.0	15.8	20.7	685
3x10	3.8	1.0	17.3	22.6	930
3x16	4.8	1.0	19.7	25.5	1236
3x25	6.3	1.2	23.4	29.2	1706
3x35	7.1	1.2	25.8	32.0	2149
3x50	8.3	1.4	29.	36.0	2872
3x70	10.0	1.4	33.5	41.1	3816
3x95	11.7	1.6	36.8	45.3	4940
3x120	13.0	1.6	40.3	49.5	6039
3x150	14.3	1.8	44.7	55.1	7641

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3x185	16.3	2.0	49.2	61.2	9517
3x240	18.7	2.2	55.5	68.2	11999
4x1.5	1.6	1.0	12.9	17.1	442
4x2.5	2.0	1.0	14.1	18.4	526
4x4	2.6	1.0	16.1	20.7	680
4x6	3.2	1.0	17.3	22.1	814
4x10	3.8	1.0	18.9	24.3	1092
4x16	4.8	1.0	21.6	27.5	1468
4g16	4.8	1.0	21.6	27.5	1468
4x25	6.3	1.2	25.7	31.5	2045
4x35	7.1	1.2	28.3	34.6	2595
4x50	8.3	1.4	31.9	38.9	3489
4x70	10.0	1.4	37.0	44.6	4653
4x95	11.7	1.6	40.7	49.2	6054
4x120	13.0	1.6	44.5	53.7	7415
5x1.5	1.59	1.0	13.5	18.0	490
5x2.5	2.5	1.0	14.7	19.8	630
5x4	3.3	1.0	16.6	22.0	800
5g4	3.3	1.0	16.6	22.0	800
5x6	4.0	1.0	18.5	23.0	891
5x10	4.5	1.0	20.5	25.0	1174
5x16	5.5	1.0	23.0	29.0	1583
5g16	5.5	1.0	23.0	29.0	1583
5x25	7.0	1.2	28.0	34.0	2330
5x35	7.9	1.2	30.6	36.7	3010
5g35	7.9	1.2	30.6	36.7	3010
5x50	-	-	36.5	42.5	4100
5x70	10.7	1.4	40.0	47.5	5270
5x95	-	-	46.0	54.0	7700
7x1.5	1.6	1.0	15.5	20.2	606
7x2.5	2.0	1.0	16.8	21.4	720
12x1.5	1.6	1.0	20.3	25.9	1028
12x2.5	2.0	1.0	22.1	27.7	1236
19x1.5	1.6	1.0	23.8	29.6	1356
19x2.5	2.0	1.0	26.1	31.9	1670
27x1.5	1.6	1.0	28.7	34.9	1885
27x2.5	2.0	1.0	31.5	37.8	2332
37x1.5	1.6	1.0	32.4	39.0	2357
37x2.5	2.0	1.0	35.5	42.2	2935

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