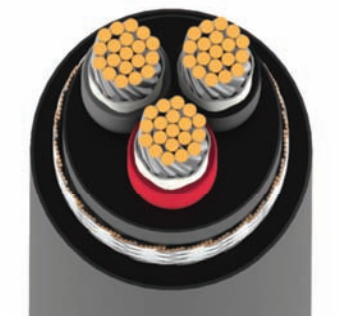


# Low voltage Power cable

**BFOU, BFCU**

Halogen-free and/or Mud resistant cables for offshore installations



## Construction

- 1** Conductor  
Tinned annealed copper wire according to IEC 60228 Class 2 or Class 5
- 2** Fire proof layer  
Mica / Glass tape
- 3** Insulation  
HF EPR as per IEC 60092-360(351), thickness as per IEC 60092-353
- 4** Inner covering/Bedding  
Halogen free thermoset compound, thickness according to IEC 60092-353
- 5** Braid armour  
Tinned copper wire braid (O), Galvanized steel wire braid (C)
- 6** Outer sheath  
Halogen free thermoset compound SHF2 or halogen free MUD resistant thermoset compound SHF MUD complying with IEC 60092-360(359) and / or NEK 606.

## Marking

e.g. : **S.E.C. 0.6/1kV P5/P12 BFOU-M 2 X 70SQMM NEK 606 IEC 60332-3A IEC 60331 MUD SEOUL Year Length**

## Applicable standards

NEK 606	Design standards
IEC 60092-350	Design standards
IEC 60092-352	Choice and installation of electric cables
IEC 60092-353	Design standards
IEC 60092-360(351, 359)	Insulating and sheathing materials
IEC 60331	Fire resisting test
IEC 60332-1	Flame retardant (Single)
IEC 60332-3-22 Cat.A	Flame retardant (Bunched)
IEC 60684-2	Fluorine content test
IEC 60754-1	Halogen gas emission test
IEC 60754-2	pH and conductivity test
IEC 61034-1,2	Smoke emission test
UL 1581	UV resistance (sunlight resistance)
CSA C 22.2 No.0.3	Cold bending test (at -40°C) and cold impact (at -35°C) test at low temperature (option)



# 0.6/1kV

Mica tape, (HF-)EPR insulated, Halogen free Inner covering/Bedding, Braid armour, Halogen free SHF2 or SHF MUD cables(Flame and Fire resistant) BFOU, BFCU

No. of Cores	Conductor		Insulation Thick mm	Inner Covering Overall dia. mm	Outer Diameter Nom. mm	Cable weight Approx. kg/km	Conductor Resistance(20°C) max. Ω/km	Current Rating Amp.
	Area mm²	Overall dia. mm						
	1	1						
1	1.5	1.59	1.0	6.8	9.8	170	12.2	23
1	2.5	2.01	1.0	7.2	10.3	190	7.56	40
1	4	2.55	1.0	7.7	10.8	220	4.70	51
1	6	3.12	1.0	8.3	11.5	260	3.11	52
1	10	4.05	1.0	9.2	12.5	320	1.84	72
1	16	5.10	1.0	10.2	13.8	400	1.16	96
1	25	6.42	1.2	11.9	16.0	580	0.734	127
1	35	7.56	1.2	13.0	17.3	720	0.529	157
1	50	8.90	1.4	14.8	19.1	890	0.391	196
1	70	10.70	1.4	16.5	21.1	1,150	0.270	242
1	95	12.60	1.6	18.8	23.6	1,480	0.195	293
1	120	14.20	1.6	20.4	25.4	1,780	0.154	339
1	150	15.80	1.8	22.2	27.5	2,100	0.126	389
1	185	17.60	2.0	24.5	29.9	2,550	0.100	444
1	240	20.30	2.2	27.8	33.8	3,260	0.0762	522
1	300	22.70	2.4	30.7	37.3	4,080	0.0607	601

# 0.6/1kV

Mica tape, (HF-)EPR insulated, Halogen free Inner covering/Bedding, Braid armour, Halogen free SHF2 or SHF MUD cables(Flame and Fire resistant) BFOU, BFCU

No. of Cores	Conductor		Insulation Thick mm	Inner Covering Overall dia. mm	Outer Diameter Nom. mm	Cable weight Approx. kg/km	Conductor Resistance(20°C) max. Ω/km	Current Rating Amp.
	Area mm²	Overall dia. mm						
	2	1						
2	1.5	1.59	1.0	11.4	14.9	420	12.2	20
2	2.5	2.01	1.0	12.2	15.8	480	7.56	26
2	4	2.55	1.0	13.3	17.0	490	4.70	34
2	6	3.12	1.0	14.4	18.2	560	3.11	44
2	10	4.05	1.0	16.3	20.2	710	1.84	61
2	16	5.10	1.0	18.3	22.5	920	1.16	82
2	25	6.42	1.2	21.7	26.3	1,250	0.734	108
2	35	7.56	1.2	23.9	28.8	1,540	0.529	133
2	50	8.90	1.4	27.4	32.7	1,960	0.391	167
2	70	10.70	1.4	31.3	37.4	2,690	0.270	206
2	95	12.60	1.6	35.8	42.7	3,480	0.195	249
2	120	14.20	1.6	39.4	46.5	4,200	0.154	288
2	150	15.80	1.8	43.1	50.6	5,000	0.126	331
2	185	17.60	2.0	47.7	55.8	6,090	0.100	377
2	240	20.30	2.2	53.9	62.6	7,700	0.0762	444
2	300	22.70	2.4	59.6	68.8	9,420	0.0607	511

**0.6/1kV**

Mica tape, (HF-)EPR insulated, Halogen free Inner covering/Bedding, Braid armour, Halogen free SHF2 or SHF MUD cables(Flame and Fire resistant) BFOU, BFCU

No. of Cores	Conductor		Insulation Thick mm	Inner Covering Overall dia. mm	Outer Diameter Nom. mm	Cable weight Approx. kg/km	Conductor Resistance(20°C) max. Ω/km	Current Rating Amp.
	Area mm <sup>2</sup>	Overall dia. mm						
	3	1						
3	1.5	1.59	1.0	12.1	15.6	460	12.2	16
3	2.5	2.01	1.0	13.0	16.6	520	7.56	21
3	4	2.55	1.0	14.2	17.8	620	4.70	28
3	6	3.12	1.0	15.3	19.2	730	3.11	36
3	10	4.05	1.0	17.4	21.4	860	1.84	50
3	16	5.10	1.0	19.6	23.8	1,130	1.16	67
3	25	6.42	1.2	23.2	27.9	1,580	0.734	89
3	35	7.56	1.2	25.6	30.6	1,970	0.529	110
3	50	8.90	1.4	29.8	35.3	2,560	0.391	137
3	70	10.70	1.4	33.5	39.8	3,480	0.270	169
3	95	12.60	1.6	38.8	45.9	4,600	0.195	205
3	120	14.20	1.6	42.2	49.6	5,540	0.154	237
3	150	15.80	1.8	46.2	54.0	6,600	0.126	272
3	185	17.60	2.0	51.5	59.7	8,140	0.100	311
3	240	20.30	2.2	57.8	67.0	10,290	0.0762	365
3	300	22.70	2.4	64.3	74.1	12,730	0.0607	421

**0.6/1kV**

Mica tape, (HF-)EPR insulated, Halogen free Inner covering/Bedding, Braid armour, Halogen free SHF2 or SHF MUD cables(Flame and Fire resistant) BFOU, BFCU

No. of Cores	Conductor		Insulation Thick mm	Inner Covering Overall dia. mm	Outer Diameter Nom. mm	Cable weight Approx. kg/km	Conductor Resistance(20°C) max. Ω/km	Current Rating Amp.
	Area mm <sup>2</sup>	Overall dia. mm						
	4	1						
4	1.5	1.59	1.0	13.3	16.9	530	12.2	16
4	2.5	2.01	1.0	14.3	17.9	600	7.56	21
4	4	2.55	1.0	15.6	19.3	720	4.70	28
4	6	3.12	1.0	16.9	20.8	860	3.11	36
4	10	4.05	1.0	19.2	23.2	1,040	1.84	50
4	16	5.10	1.0	21.6	26.0	1,390	1.16	67
4	25	6.42	1.2	25.7	30.6	1,960	0.734	89
4	35	7.56	1.2	28.8	33.8	2,500	0.529	110
4	50	8.90	1.4	33.0	39.1	3,340	0.391	137
4	70	10.70	1.4	37.2	44.0	4,370	0.270	169
4	95	12.60	1.6	43.1	50.4	5,830	0.195	205
4	120	14.20	1.6	46.9	54.5	7,010	0.154	237
4	150	15.80	1.8	51.8	60.1	8,470	0.126	272
4	185	17.60	2.0	57.3	66.1	10,420	0.100	311
4	240	20.30	2.2	64.7	74.5	13,270	0.0762	365

# 0.6/1kV

Mica tape, (HF-)EPR insulated, Halogen free Inner covering/Bedding, Braid armour, Halogen free SHF2 or SHF MUD cables(Flame and Fire resistant) BFOU, BFCU

No. of Cores	Conductor		Insulation Thick mm	Inner Covering Overall dia. mm	Outer Diameter Nom. mm	Cable weight Approx. kg/km	Conductor Resistance(20°C) max. Ω/km	Current Rating Amp.
	Area mm²	Overall dia. mm						
	5	1						
6	1	1.29	1.0	15.1	18.5	600	18.2	9
7	1	1.29	1.0	15.1	18.5	620	18.2	8
8	1	1.29	1.0	16.4	19.8	700	18.2	8
9	1	1.29	1.0	17.7	21.1	770	18.2	8
10	1	1.29	1.0	19.4	22.8	890	18.2	7
12	1	1.29	1.0	20.0	23.4	940	18.2	7
14	1	1.29	1.0	21.2	24.5	1,020	18.2	7
15	1	1.29	1.0	21.7	25.2	1,070	18.2	6
16	1	1.29	1.0	22.4	25.8	1,130	18.2	6
19	1	1.29	1.0	23.6	27.0	1,240	18.2	6
21	1	1.29	1.0	24.9	28.4	1,350	18.2	6
23	1	1.29	1.0	26.3	29.7	1,450	18.2	6
24	1	1.29	1.0	27.9	31.4	1,590	18.2	6
27	1	1.29	1.0	28.6	32.3	1,670	18.2	5
30	1	1.29	1.0	29.7	33.5	1,780	18.2	5
33	1	1.29	1.0	31.3	35.0	1,960	18.2	5
37	1	1.29	1.0	32.6	36.3	2,130	18.2	5
44	1	1.29	1.0	36.8	41.1	2,670	18.2	5

# 0.6/1kV

Mica tape, (HF-)EPR insulated, Halogen free Inner covering/Bedding, Braid armour, Halogen free SHF2 or SHF MUD cables(Flame and Fire resistant) BFOU, BFCU

No. of Cores	Conductor		Insulation Thick mm	Inner Covering Overall dia. mm	Outer Diameter Nom. mm	Cable weight Approx. kg/km	Conductor Resistance(20°C) max. Ω/km	Current Rating Amp.
	Area mm²	Overall dia. mm						
	5	1.5						
6	1.5	1.59	1.0	16.0	19.5	680	12.2	12
7	1.5	1.59	1.0	16.0	19.5	700	12.2	10
8	1.5	1.59	1.0	17.4	20.9	780	12.2	10
9	1.5	1.59	1.0	18.8	22.4	870	12.2	10
10	1.5	1.59	1.0	20.5	24.1	990	12.2	9
12	1.5	1.59	1.0	21.2	24.8	1,060	12.2	9
14	1.5	1.59	1.0	22.4	26.0	1,170	12.2	8
15	1.5	1.59	1.0	23.0	26.6	1,210	12.2	8
16	1.5	1.59	1.0	23.7	27.2	1,280	12.2	8
19	1.5	1.59	1.0	25.0	28.7	1,430	12.2	7
21	1.5	1.59	1.0	26.4	30.1	1,540	12.2	7
23	1.5	1.59	1.0	27.8	31.6	1,680	12.2	7
24	1.5	1.59	1.0	30.0	34.0	1,870	12.2	7
27	1.5	1.59	1.0	30.7	34.6	1,970	12.2	7
30	1.5	1.59	1.0	31.9	35.8	2,110	12.2	6
33	1.5	1.59	1.0	33.2	37.4	2,380	12.2	6
37	1.5	1.59	1.0	34.5	38.8	2,580	12.2	6
44	1.5	1.59	1.0	39.1	43.7	3,090	12.2	6

## 0.6/1kV

Mica tape, (HF-)EPR insulated, Halogen free inner covering/Bedding, Braid armour  
Halogen free SHF2 or SHF MUD cables(Flame and Fire resistant) BFOU, BFCU

No. of Cores	Conductor		Insulation Thick mm	Inner Covering Overall dia. mm	Outer Diameter Nom. mm	Cable weight Approx. kg/km	Conductor Resistance(20°C) max. Ω/km	Current Rating Amp.
	Area mm <sup>2</sup>	Overall dia. mm						
	5	2.5						
6	2.5	2.01	1.0	17.2	20.9	790	7.56	16
7	2.5	2.01	1.0	17.2	20.9	820	7.56	15
8	2.5	2.01	1.0	18.7	22.4	930	7.56	15
9	2.5	2.01	1.0	20.3	23.9	1,030	7.56	15
10	2.5	2.01	1.0	22.2	25.9	1,190	7.56	13
12	2.5	2.01	1.0	23.0	26.7	1,280	7.56	12
14	2.5	2.01	1.0	24.2	28.0	1,410	7.56	12
15	2.5	2.01	1.0	24.9	28.7	1,470	7.56	12
16	2.5	2.01	1.0	25.7	29.4	1,550	7.56	11
19	2.5	2.01	1.0	27.1	31.1	1,730	7.56	10
21	2.5	2.01	1.0	28.7	32.9	1,880	7.56	10
23	2.5	2.01	1.0	30.6	34.7	2,090	7.56	10
24	2.5	2.01	1.0	32.5	36.9	2,380	7.56	10
27	2.5	2.01	1.0	33.3	37.7	2,510	7.56	10
30	2.5	2.01	1.0	34.6	39.0	2,710	7.56	9
33	2.5	2.01	1.0	36.0	40.4	2,900	7.56	9
37	2.5	2.01	1.0	37.5	42.4	3,150	7.56	8
44	2.5	2.01	1.0	42.8	48.0	3,860	7.56	8

## 0.6/1kV

Mica tape, (HF-)EPR insulated, Halogen free inner covering/Bedding, Braid armour  
Halogen free SHF2 or SHF MUD cables(Flame and Fire resistant) BFOU, BFCU

No. of Cores	Conductor		Insulation Thick mm	Inner Covering Overall dia. mm	Outer Diameter Nom. mm	Cable weight Approx. kg/km	Conductor Resistance(20°C) max. Ω/km	Current Rating Amp.
	Area mm <sup>2</sup>	Overall dia. mm						
	2+E	25						
16		5.10	1.0					
2+E	35	7.56	1.2	25.2	30.2	1,890	0.529	133
	25	6.42	1.2					
2+E	50	8.90	1.4	28.1	34.2	2,280	0.391	167
	25	6.42	1.2					
2+E	70	10.70	1.4	31.9	38.5	3,120	0.270	206
	35	7.56	1.2					
2+E	95	12.60	1.6	36.6	44.1	4,060	0.195	249
	50	8.90	1.4					
2+E	120	14.20	1.6	40.5	48.2	5,020	0.154	288
	70	10.70	1.4					
2+E	150	15.80	1.8	44.7	52.9	6,130	0.126	331
	95	12.60	1.6					
2+E	185	17.60	2.0	48.5	57.7	7,200	0.100	377
	95	12.60	1.6					
2+E	240	20.30	2.2	54.6	64.5	9,110	0.0762	444
	120	14.20	1.6					

# 0.6/1kV

Mica tape, (HF-)EPR insulated, Halogen free inner covering/Bedding, Braid armour  
Halogen free SHF2 or SHF MUD cables(Flame and Fire resistant) BFOU, BFCU

No. of Cores	Conductor		Insulation Thick mm	Inner Covering Overall dia. mm	Outer Diameter Nom. mm	Cable weight Approx. kg/km	Conductor Resistance(20°C) max. Ω/km	Current Rating Amp.
	Area mm <sup>2</sup>	Overall dia. mm						
	3+E	25						
3+E	16	5.10	1.0	26.8	33.0	2,330	0.529	110
	35	7.56	1.2					
3+E	25	6.42	1.2	30.4	37.3	2,890	0.391	137
	50	8.90	1.4					
3+E	70	10.70	1.4	34.2	41.7	3,910	0.270	169
	35	7.56	1.2					
3+E	95	12.60	1.6	39.5	47.7	5,190	0.195	205
	50	8.90	1.4					
3+E	120	14.20	1.6	43.3	51.8	6,360	0.154	237
	70	10.70	1.4					
3+E	150	15.80	1.8	47.8	57.8	7,770	0.126	272
	95	12.60	1.6					
3+E	185	17.60	2.0	52.4	62.1	9,220	0.100	311
	95	12.60	1.6					
3+E	240	20.30	2.2	58.5	69.2	11,600	0.0762	365
	120	14.20	1.6					

# 0.6/1kV

Mica tape, (HF-)EPR insulated, Halogen free inner covering/Bedding, Braid armour  
Halogen free SHF2 or SHF MUD cables(Flame and Fire resistant) BFOU, BFCU

No. of Cores	Conductor		Insulation Thick mm	Inner Covering Overall dia. mm	Outer Diameter Nom. mm	Cable weight Approx. kg/km	Conductor Resistance(20°C) max. Ω/km	Current Rating Amp.
	Area mm <sup>2</sup>	Overall dia. mm						
	4+E	25						
4+E	16	5.10	1.0	30.0	37.1	2,860	0.529	110
	35	7.56	1.2					
4+E	25	6.42	1.2	33.7	41.4	3,680	0.391	137
	50	8.90	1.4					
4+E	70	10.70	1.4	37.9	46.5	4,840	0.270	169
	35	7.56	1.2					
4+E	95	12.60	1.6	43.8	53.0	6,420	0.195	205
	50	8.90	1.4					
4+E	120	14.20	1.6	48.0	58.3	7,930	0.154	237
	70	10.70	1.4					
4+E	150	15.80	1.8	53.4	64.2	9,710	0.126	272
	95	12.60	1.6					
4+E	185	17.60	2.0	58.1	69.6	11,550	0.100	311
	95	12.60	1.6					
4+E	240	20.30	2.2	65.4	78.1	14,740	0.0762	365
	120	14.20	1.6					