

## BU 0.6/1 (1.2)kV P17

### MGT/EPR/EVA

Halogen-free, mud resistant, fire resistant, flame retardant, unarmoured power cable



### Application

Fixed installation for power, control and lightning in safe areas, emergency and critical systems where requirement for fire resistance exists. For installation in areas exposed to MUD and drilling/cleaning fluids. Meets the MUD resistance requirement in NEK TS 606:2009. These cables are double-insulated and Single core cables are used as battery cables.

### Construction

<b>Conductor</b>	: Tinned annealed stranded circular copper (STCC), IEC 60228 class 2
<b>Insulation</b>	: Mica-tape + EP-rubber, IEC 60092-360 (EPR)
<b>Lay up / Shielding</b>	: Cores laid up in concentric layers
<b>Inner covering</b>	: No inner covering. (Additional tapes may be applied)
<b>Outer sheath</b>	: Flame retardant, halogen-free and mud resistant thermoset compound, SHF2 (IEC 60092-360)
<b>Marking text</b>	: E.g. "meter" "year" manufacturer BU 0,6/1kV P17 1 x 70 mm <sup>2</sup> IEC 60331-21 IEC 60332-3-22

### Core Identification

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

### Outer Sheath Colours

<b>Available colours</b>	: Black
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## Installation recommendations

Min. Bending Radius during Installation	: 8xD
Min. Bending Radius Fix Installed	: 6xD
Max. Conductor Operating Temperature	: 90°C

## Standards applied

IEC 60092-353	Design
IEC 60228 class 2	Conductor
IEC 60092-360	Insulation
IEC 60092-360	Sheath
IEC 60332-1-2	Flame Retardant
IEC 60332-3-22	Flame Retardant
IEC 60331-21	Fire Resistant
IEC 60754-1,2	Halogen Free
IEC 61034-1,2	Low Smoke

## Range and Dimensions

Article Code	Number of elements	Size Cross-Section in mm <sup>2</sup>	Nominal diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)
N1201C010BAKBK4	1	10	8.5	165
N1201C016BAKBK4	1	16	10	235
N1201C025BAKBK4	1	25	11.5	350
N1201C035BAKBK4	1	35	13	460
N1201C050BAKBK4	1	50	15	620
N1201C070BAKBK4	1	70	17	850
N1201C095BAKBK4	1	95	19.5	1120
N1201C120BAKBK4	1	120	21	1380
N1201C150BAKBK4	1	150	23.5	1730
N1201C185BAKBK4	1	185	25.5	2100
N1201C240BAKBK4	1	240	29	2700
N1202C1.5BWWBK4	2	1.5	10	150
N1203C1.5BBABK4	3	1.5	10.5	175
N1207C1.5BAABK4	7	1.5	13	310
N1219C1.5BAABK4	19	1.5	21	740
N1203C1.5BFFBK4	3G	1.5	10.5	175
N1207C1.5BVVBK4	7G	1.5	13	310
N1202C2.5BWWBK4	2	2.5	11	185
N1203C2.5BBABK4	3	2.5	11.5	220
N1207C2.5BAABK4	7	2.5	14.5	400
N1212C2.5BAABK4	12	2.5	19.5	640
N1219C2.5BAABK4	19	2.5	23	970
N1203C2.5BFFBK4	3G	2.5	11.5	220
N1204C2.5BBEBK4	4G	2.5	13	265
N1205C2.5BBDBK4	5G	2.5	14.5	340
N1203C004BBABK4	3	4	13	295
N1203C004BFFBK4	3G	4	13	295
N1204C004BEABK4	4G	4	14.5	370
N1202C006BWWBK4	2	6	13.5	310
N1203C006BBABK4	3	6	14.5	380
N1204C006BBEBK4	4G	6	16	480
N1205C006BBDBK4	5G	6	18	600
N1202C010BWWBK4	2	10	15.5	440
N1203C010BBABK4	3	10	16.5	550
N1204C010BBEBK4	4G	10	18.5	690
N1203C016BBABK4	3	16	19	790
N1204C016BBEBK4	4G	16	21.5	1000
N1203C025BBABK4	3	25	23	1190
N1203C025BFFBK4	3G	25	23	1190
N1203C035BBABK4	3	35	26	1550
N1203C035BBEBK4	4G	35	29	2000

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Article Code	Number of elements	Size Cross-Section in mm <sup>2</sup>	Nominal diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)
N1203C050BBABK4	3	50	30	2120
N1203C150BBABK4	3	150	48	5910
N1204C150BBEBK4	4G	150	53.5	7750

Note: Subject to change without prior notice. Nominal diameter can have a tolerance of -5% or +5%.

## Electrical value instrumentation cables

Number of elements	Size Cross-Section in mm <sup>2</sup>	Max. conductor resistance at 20°C, Ohm/km	Max. conductor resistance at 90°C, Ohm/km	Reactance at 50Hz, Ohm/km	Reactance at 60Hz, Ohm/km	Current rating IEC 60092-352 Table B.4, Ampere	Short circuit rating 1 second, Ampere
1	10	1.84	2.35	0.107	0.128	72	1400
1	16	1.16	1.48	0.1	0.12	96	2240
1	25	0.734	0.936	0.096	0.115	127	3500
1	35	0.529	0.675	0.093	0.111	157	4900
1	50	0.391	0.499	0.091	0.11	196	7000
1	70	0.27	0.344	0.087	0.105	242	9800
1	95	0.195	0.249	0.086	0.103	293	13300
1	120	0.154	0.196	0.084	0.1	339	16800
1	150	0.126	0.161	0.084	0.1	389	21000
1	185	0.1	0.128	0.083	0.099	444	25900
1	240	0.0762	0.128	0.082	0.098	522	33600
2	1.5	12.2	15.6	0.11	0.138	20	210
3	1.5	12.2	15.6	0.11	0.138	16	210
7	1.5	12.2	15.6	0.11	0.138	12	210
19	1.5	12.2	15.6	0.11	0.138	8.5	210
3G	1.5	12.2	15.6	0.11	0.138	20	210
7G	1.5	12.2	15.6	0.11	0.138	12.5	210
2	2.5	7.56	9.64	0.103	0.129	26	350
3	2.5	7.56	9.64	0.103	0.129	21	350
7	2.5	7.56	9.64	0.103	0.129	15.5	350
12	2.5	7.56	15.6	0.103	0.129	13	350
19	2.5	7.56	15.6	0.103	0.129	11	350
3G	2.5	7.56	9.64	0.103	0.129	26	350
4G	2.5	7.56	9.64	0.103	0.129	21	350
5G	2.5	7.56	9.64	0.103	0.129	21	350
3	4	4.7	5.99	0.096	0.120	28	560
3G	4	4.7	9.64	0.096	0.120	34	560
4G	4	4.7	9.64	0.096	0.120	28	560
2	6	3.11	3.97	0.09	0.112	44	840
3	6	3.11	3.97	0.09	0.112	36	840
4G	6	3.11	3.97	0.09	0.112	36	840
5G	6	3.11	3.97	0.09	0.112	36	840
2	10	1.84	3.97	0.084	0.105	61	1400
3	10	1.84	2.35	0.084	0.105	50	1400
4G	10	1.84	2.35	0.084	0.105	50	1400
3	16	1.16	1.48	0.08	0.099	67	2240
4G	16	1.16	1.48	0.08	0.099	67	2240
3	25	0.734	0.936	0.079	0.098	89	3500
3G	25	0.734	0.936	0.079	0.098	108	3500
3	35	0.529	0.675	0.076	0.094	110	4900
4G	35	0.529	0.675	0.076	0.094	110	4900
3	50	0.391	0.499	0.076	0.093	137	7000
3	150	0.126	0.161	0.072	0.088	272	21000
4G	150	0.126	0.161	0.072	0.088	272	21000

### NOTICE

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