

BU 0,6/1(1,2)kV P17 Power cable, Unarmoured



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

BU 0,6/1(1,2)kV
MGT/EPR/EVA

NEK TS 606 CodeP17

Operating temperature : 90°C
Operating Voltage : 0,6/1(1,2)kV

Standards applied

IEC 60092-353	- Design
IEC 60228 class 2	- Conductor
IEC 60092-351	- Insulation
IEC 60092-359	- Sheath
IEC 60332-1	- 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

Application

Fixed installation for power, control and lighting 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

	Code Letter	
Conductor		Tinned annealed stranded circular copper (STCC), IEC 60228 class 2
Insulation	B	Mica-tape + EP-rubber, IEC 60092-351 (EPR)
Lay up / Shielding		Cores laid up in concentric layers
Inner covering		No inner covering. (Additional tapes may be applied)
Armour/screen		No armour.
Outer sheath	U	Flame retardant, halogen-free and mud resistant thermoset compound, SHF2 (IEC 60092-359)
Marking text		E.g. "meter" "year" DRAKA 01 BU 0,6/1kV P17 1 x 70 mm ² IEC 60331-21 IEC 60332-3-22
Manufacturing unit		DRAKA 01 = Draka Norsk Kabel,
Outer sheath colour		Black

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Core identification power cables

Single core - Black

Two cores - Blue - Brown

Three cores - Brown - Black - Grey

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

G / X in cable description - G = One of the cores are yellow/green - X = no yellow/green core

Core identification - to HD308S2 - and IEC 60446:2007-05

Range and dimensions

Number of elements	Cross section core, mm ²	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
1	25	6.45	1.2	1.1	11.5 ± 0.8	350	231
1	35	7.65	1.2	1.2	13 ± 0.8	460	314
1	50	9.0	1.4	1.2	15 ± 0.8	620	434
1	70	10.85	1.4	1.3	17 ± 0.8	850	632
1	95	12.60	1.6	1.4	19.5 ± 0.8	1120	847
1	120	14.20	1.6	1.4	21 ± 1	1390	1075
1	150	15.90	1.8	1.5	23.5 ± 1	1730	1357
1	185	17.70	2.0	1.6	26 ± 1	2110	1664
1	240	20.15	2.2	1.7	29 ± 1	2710	2165
1	10	4.05	1.0	1	8.5 ± 0.5	160	91
2	1.5	1.6	1.0	1.1	10 ± 0.8	150	28
3G	1.5	1.6	1.0	1.1	10.5 ± 0.8	175	42
3	1.5	1.6	1.0	1.1	10.5 ± 0.8	175	42
7	1.5	1.6	1.0	1.2	14 ± 0.8	320	98
19	1.5	1.6	1.0	1.5	22.5 ± 1	760	266
2	2.5	2.0	1.0	1.1	11 ± 0.8	185	46
3G	2.5	2.0	1.0	1.2	11.5 ± 0.8	220	69
3	2.5	2.0	1.0	1.2	11.5 ± 0.8	220	69
4G	2.5	2.0	1.0	1.2	13 ± 0.8	265	92
5G	2.5	2.0	1.0	1.3	14.5 ± 0.8	340	115
7	2.5	2.0	1.0	1.3	15.5 ± 0.8	410	161
12	2.5	2.0	1.0	1.4	21 ± 1	650	276
19	2.5	2.0	1.0	1.6	25 ± 1	990	436
3	4	2.55	1.0	1.2	13 ± 0.8	295	110
3G	4	2.55	1.0	1.2	13 ± 0.8	295	110
2	6	3.15	1.0	1.2	13.5 ± 0.8	310	109
3	6	3.15	1.0	1.2	14.5 ± 0.8	380	164
5G	6	3.15	1.0	1.4	18 ± 0.8	600	273
2	10	4.05	1.0	1.3	15.5 ± 0.8	440	182
3	10	4.05	1.0	1.4	16.5 ± 0.8	550	271
3	16	5.15	1.0	1.4	19 ± 0.8	790	438
3	25	6.45	1.2	1.5	22.5 ± 1	1160	688
3G	25	6.45	1.2	1.5	23 ± 1	1190	694
3	35	7.65	1.2	1.7	26 ± 1	1550	927
3	50	9.0	1.4	1.9	30 ± 1.5	2120	1293
3	150	15.9	1.8	2.3	48 ± 2	5910	4020

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Ordering information

Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
801201	BU 0.6/1kV 1X 25mm ² P17	BLACK	-	7021528012019	1061201
801202	BU 0.6/1kV 1X 35mm ² P17	BLACK	-	7021528012026	-
801203	BU 0.6/1kV 1X 50mm ² P17	BLACK	-	7021528012033	1061203
801204	BU 0.6/1kV 1X 70mm ² P17	BLACK	-	7021528012040	-
801205	BU 0.6/1kV 1X 95mm ² P17	BLACK	-	7021528012057	1061205
801206	BU 0.6/1kV 1X 120mm ² P17	BLACK	-	7021528012064	-
801207	BU 0.6/1kV 1X 150mm ² P17	BLACK	-	7021528012071	1061207
801208	BU 0.6/1kV 1X 185mm ² P17	BLACK	-	7021528012088	-
801209	BU 0.6/1kV 1X 240mm ² P17	BLACK	-	7021528012095	-
801214	BU 0.6/1kV 1X 10mm ² P17	BLACK	-	7021528012149	-
801215	BU 0.6/1kV 2X 1.5mm ² P17	BLACK	-	7021528012156	-
801216	BU 0.6/1kV 3G 1.5mm ² P17	BLACK	-	7021528012163	-
801218	BU 0.6/1kV 3X 1.5mm ² P17	BLACK	-	7021528012187	-
801225	BU 0.6/1kV 7X 1.5mm ² P17	BLACK	-	7021528012255	-
801228	BU 0.6/1kV 19X 1.5mm ² P17	BLACK	-	7021528012286	-
801233	BU 0.6/1kV 2X 2.5mm ² P17	BLACK	-	7021528012330	-
801234	BU 0.6/1kV 3G 2.5mm ² P17	BLACK	Yes	7021528012347	-
801236	BU 0.6/1kV 3X 2.5mm ² P17	BLACK	-	7021528012361	-
801237	BU 0.6/1kV 4G 2.5mm ² P17	BLACK	-	7021528012378	-
801240	BU 0.6/1kV 5G 2.5mm ² P17	BLACK	-	7021528012408	-
801244	BU 0.6/1kV 7X 2.5mm ² P17	BLACK	-	7021528012446	-
801245	BU 0.6/1kV 12X 2.5mm ² P17	BLACK	-	7021528012453	-
801246	BU 0.6/1kV 19X 2.5mm ² P17	BLACK	-	7021528012460	-
801253	BU 0,6/1KV 3X 4 MM2 P17	BLACK	-	7021528012538	-
801254	BU 0.6/1kV 3G 4mm ² P17	BLACK	-	7021528012545	-
801259	BU 0,6/1KV 2X 6 MM2 P17	BLACK	-	7021528012590	-
801261	BU 0.6/1kV 3X 6mm ² P17	BLACK	-	7021528012613	-
801263	BU 0.6/1kV 5G 6mm ² P17	BLACK	-	7021528012637	-
801266	BU 0.6/1kV 2X 10mm ² P17	BLACK	-	7021528012668	-
801267	BU 0,6/1KV 3X 10 MM2 P17	BLACK	-	7021528012675	-
801273	BU 0.6/1kV 3X 16mm ² P17	BLACK	-	7021528012736	-
801279	BU 0,6/1KV 3X 25 mm ² P17	BLACK	-	7021528012798	-
801280	BU 0.6/1kV 3G 25mm ² P17	BLACK	-	7021528012804	-
801286	BU 0,6/1KV 3X 35 mm ² P17	BLACK	-	7021528012866	-
801292	BU 0,6/1KV 3X 50 mm ² P17	BLACK	-	7021528012927	-
801298	BU 0,6/1KV 3X 150 mm ² P17	BLACK	-	7021528012989	-

Electrical values power cables

Number of elements	Cross section core, mm ²	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	25	0.734	0.936	0.097	0.117	127	3500
1	35	0.529	0.675	0.093	0.111	157	4900
1	50	0.391	0.499	0.091	0.109	196	7000
1	70	0.27	0.344	0.087	0.105	242	9800
1	95	0.195	0.249	0.085	0.102	293	13300
1	120	0.154	0.196	0.084	0.100	339	16800
1	150	0.126	0.161	0.083	0.100	389	21000
1	185	0.1	0.128	0.083	0.100	444	25900
1	240	0.0762	0.128	0.083	0.100	522	33600

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Number of elements	Cross section core, mm ²	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	0.108	0.130	72	1400
2	1.5	12.2	15.6	0.115	0.138	20	210
3G	1.5	12.2	15.6	0.115	0.138	20	210
3	1.5	12.2	15.6	0.115	0.138	16	210
7	1.5	12.2	15.6	0.115	0.138	12	210
19	1.5	12.2	15.6	0.115	0.138	8.5	210
2	2.5	7.56	9.64	0.107	0.129	26	350
3G	2.5	7.56	9.64	0.107	0.129	26	350
3	2.5	7.56	9.64	0.107	0.129	21	350
4G	2.5	7.56	9.64	0.107	0.129	21	350
5G	2.5	7.56	9.64	0.107	0.129	21	350
7	2.5	7.56	9.64	0.107	0.129	15.5	350
12	2.5	7.56	15.6	0.115	0.138	13	350
19	2.5	7.56	15.6	0.115	0.138	11	350
3	4	4.7	5.99	0.100	0.120	28	560
3G	4	4.7	9.64	0.107	0.129	34	560
2	6	3.11	3.97	0.094	0.112	44	840
3	6	3.11	3.97	0.094	0.112	36	840
5G	6	3.11	3.97	0.094	0.112	36	840
2	10	1.84	3.97	0.094	0.112	61	1400
3	10	1.84	2.35	0.088	0.105	50	1400
3	16	1.16	1.48	0.082	0.099	67	2240
3	25	0.734	0.936	0.079	0.095	89	3500
3G	25	0.734	0.936	0.082	0.099	108	3500
3	35	0.529	0.675	0.078	0.094	110	4900
3	50	0.391	0.499	0.078	0.093	137	7000
3	150	0.126	0.161	0.073	0.088	272	21000

Ambient temperature correction factors

Ambient Temp °C	35	40	45	50	55	60	65	70	75	80
Rating factor	1.10	1.05	1.00	0.94	0.88	0.82	0.74	0.67	0.58	0.47

Installation recommendations

Minimum Bending Radius during Installation	Minimum Bending Radius Fixed Installed	Maximum Tensile Load During Installation	Minimum Installation Temperature
8 x D	6 x D	50 N /mm ²	-20°C