



Halogen-free, fire resistant, unarmoured, mud resistant power cable, BU 0,6/1kV, P17

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

BU 0,6/1kV

MGT/EPR/EVA

NEK 606 CodeP17



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

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. Single core cables are double-insulated battery cables.

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

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" "år" DRAKA NORSK KABEL BU 0,6/1kV P17 1 x 70 mm ² IEC 60331-21 IEC 60332-3-22
Outer sheath colour		Black



Core identification power cables

Single core	Grey (Offwhite)
Two cores	Grey (Offwhite) - Black
Three cores	Grey (Offwhite) - Black - Red
Four cores	Grey (Offwhite) - Black - Red - Blue
Five cores	Grey (Offwhite) - Black - Red - Blue - Black
Above five cores	Black numbers on white base
Separate earth core	Yellow/green
G / x in cable description	G = one of the core are yellow/green - x = no yellow/green core

From Q3 2007 the core colours on RFOU, BFOU, RU and BU 0,6/1kV will be changed to follow Cenelec HD 308S2 colours:

Single core	Black
Two cores	Blue - Brown
Two cores + earth	Blue - Brown - Yellow/green
Three cores	Brown - Black - Grey
Three cores + earth	Brown - Black - Grey - Yellow/green
Four cores	Blue - Brown - Black - Grey
Four cores + earth	Blue - Brown - Black - Grey - Yellow/green
Five cores	Blue - Brown - Black - Grey - Black
Above five cores	Black numbers on white base

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	16	5.15	1.0	1.1	10 ± 0.8	235	144
1	25	6.45	1.2	1.1	11.5 ± 0.8	350	229
1	35	7.65	1.2	1.2	13 ± 0.8	450	308
1	50	9.0	1.4	1.2	15 ± 0.8	610	430
1	70	10.85	1.4	1.3	17 ± 0.8	840	620
1	95	12.60	1.6	1.4	19.5 ± 0.8	1110	836
1	120	14.20	1.6	1.4	21 ± 1	1380	1075
1	150	15.90	1.8	1.5	23.5 ± 1	1700	1336
1	185	17.70	2.0	1.6	26 ± 1	2100	1663
1	10	4.05	1.0	1	8.5 ± 0.5	160	90
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	1.3	14.5 ± 0.8	330	98
19	1.5	1.6	1.0	1.5	22.5 ± 1	760	264
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	1.1	11.5 ± 0.8	215	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	114
12	2.5	2.0	1.0	1.4	21 ± 1	650	275
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	1.3	17.5 ± 0.8	580	272
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	780	433
3	25	6.45	1.2	1.5	22.5 ± 1	1160	688
3	35	7.65	1.2	1.7	26 ± 1	1550	927



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)
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

Ordering information

Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
801200	BU 0.6/1kV 1X 16mm ² P17	BLACK	-	7021528012002	-
801201	BU 0.6/1kV 1X 25mm ² P17	BLACK	-	7021528012019	-
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	-
801214	BU 0.6/1kV 1X 10mm ² P17	BLACK	-	7021528012149	-
801215	BU 0,6/1KV 2X 1,5 MM2 P17	BLACK	-	7021528012156	-
801216	BU 0.6/1kV 3G 1.5mm ² P17	BLACK	-	7021528012163	-
801218	BU 0,6/1KV 3X 1,5 MM2 P17	BLACK	-	7021528012187	-
801225	BU 0,6/1KV 7X 1,5 MM2 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 2,5 MM2 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	-
801245	BU 0.6/1kV 12X 2.5mm ² P17	BLACK	-	7021528012453	-
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 6 MM2 P17	BLACK	-	7021528012613	-
801263	BU 0,6/1KV 5G 6 mm ² P17	BLACK	-	7021528012637	-
801267	BU 0,6/1KV 3X 10 MM2 P17	BLACK	-	7021528012675	-
801273	BU 0,6/1KV 3X 16 MM2 P17	BLACK	-	7021528012736	-
801279	BU 0,6/1KV 3X 25 mm ² P17	BLACK	-	7021528012798	-
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	16	1.16	1.48	0.100	0.120	96	2240
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	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



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
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
12	2.5	7.56	15.6	0.115	0.138	13	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
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
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