

Halogen-free, unarmoured, mud resistant power cable, RU 0,6/1kV, P18

Flame retardant halogen-free power cable. Mud resistant

RU 0,6/1kV

EPR/EVA

NEK 606 CodeP18



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

Application

Fixed installation for power, control and lighting in both EX- and safe areas, general purposes. For installation in areas exposed to MUD and drilling/cleaning fluids.

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 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	R	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 NORSK KABEL RU 0,6/1KV P18 3 x 2,5 mm ² 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 Genelec 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	50	9.0	1.4	1.2	14.5 ± 0.8	600	428
1	70	10.9	1.4	1.3	16.5 ± 0.8	820	620
1	95	12.60	1.6	1.4	19 ± 0.8	1100	836
1	120	14.20	1.6	1.4	20.5 ± 1	1370	1075
1	150	15.90	1.8	1.5	23 ± 1	1690	1336
1	185	17.7	2.0	1.6	25 ± 1	2070	1663
1	240	20.15	2.2	1.7	28.5 ± 1	2690	2173
1	300	22.60	2.4	1.8	31.5 ± 1.5	3360	2751
2	1.5	1.6	1.0	1.1	9.5 ± 0.5	135	28
3G	1.5	1.6	1.0	1.1	10 ± 0.8	160	42
3	1.5	1.6	1.0	1.1	10 ± 0.8	160	42
4G	1.5	1.6	1.0	1.1	11 ± 0.8	190	56
4	1.5	1.6	1.0	1.1	11 ± 0.8	190	56
7G	1.5	1.6	1.0	1.2	13.5 ± 0.8	290	97
5	1.5	1.6	1.0	1.2	12 ± 0.8	240	70
7	1.5	1.6	1.0	1.2	13.5 ± 0.8	290	98
12	1.5	1.6	1.0	1.4	18 ± 0.8	480	167
19	1.5	1.6	1.0	1.5	21 ± 1	700	264
24	1.5	1.6	1.0	1.6	25 ± 1	890	333
2	2.5	2.0	1.0	1.1	10.5 ± 0.8	170	46
3G	2.5	2.0	1.0	1.1	11 ± 0.8	205	69
3	2.5	2.0	1.0	1.1	11 ± 0.8	205	69
4G	2.5	2.0	1.0	1.2	12 ± 0.8	255	92
4	2.5	2.0	1.0	1.2	12 ± 0.8	250	92
5G	2.5	2.0	1.0	1.2	13.5 ± 0.8	320	114
7	2.5	2.0	1.0	1.3	14.5 ± 0.8	390	160
2	4	2.55	1.0	1.2	11.5 ± 0.8	225	74
3G	4	2.55	1.0	1.2	12 ± 0.8	275	110
3	4	2.55	1.0	1.2	12 ± 0.8	275	110
4G	4	2.55	1.0	1.2	13.5 ± 0.8	340	147



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)
4	4	2.55	1.0	1.2	13.5 ± 0.8	340	147
5G	4	2.55	1.0	1.3	15 ± 0.8	410	183
2	6	3.15	1.0	1.2	12.5 ± 0.8	290	109
3G	6	3.15	1.0	1.2	13.5 ± 0.8	360	164
3	6	3.15	1.0	1.2	13.5 ± 0.8	380	163
4	6	3.15	1.0	1.3	15 ± 0.8	450	218
5G	6	3.15	1.0	1.3	16.5 ± 0.8	550	272
4G	6	3.15	1.0	1.3	15 ± 0.8	450	218
2	10	4.05	1.0	1.2	14.5 ± 0.8	410	181
3	10	4.05	1.0	1.3	15.5 ± 0.8	520	271
4G	10	4.05	1.0	1.3	17.5 ± 0.8	660	361
5G	10	4.05	1.0	1.4	19 ± 0.8	820	451
3	16	5.15	1.0	1.4	18 ± 0.8	760	434
4	16	5.15	1.0	1.4	20 ± 1	950	579
3G	16	5.15	1.0	1.4	18.5 ± 0.8	770	434
4G	16	5.15	1.0	1.4	20 ± 1	970	578
5G	16	5.15	1.0	1.5	22.5 ± 1	1190	722
4	25	6.45	1.2	1.6	24.5 ± 1	1420	916
4G	25	6.45	1.2	1.6	25 ± 1	1490	917
2	35	7.65	1.2	1.5	23 ± 1	1150	618
4G	35	7.65	1.2	1.7	28 ± 1	1920	1236
5G	35	7.65	1.2	1.8	31 ± 1.5	2340	1544
3	50	9.0	1.4	1.8	29 ± 1	2050	1287
5G	50	9.0	1.4	2	36.5 ± 1.5	3280	2144
3	70	10.85	1.4	2	33.5 ± 1.5	2840	1863
5G	70	10.85	1.4	2.1	42 ± 2	4480	3105

Ordering information

Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
831703	RU 0.6/1kV 1X 50mm ² P18	BLACK	-	7021528317039	1061403
831704	RU 0,6/1KV 1X 70 MM2 P18	BLACK	-	7021528317046	-
831705	RU 0.6/1kV 1X 95mm ² P18	BLACK	-	7021528317053	-
831706	RU 0.6/1kV 1X 120mm ² P18	BLACK	-	7021528317060	-
831707	RU 0.6/1kV 1X 150mm ² P18	BLACK	-	7021528317077	1061407
831708	RU 0,6/1KV 1X185 MM2 P18	BLACK	-	7021528317084	-
831709	RU 0.6/1kV 1X 240mm ² P18	BLACK	-	7021528317091	-
831710	RU 0.6/1kV 1X 300mm ² P18	BLACK	-	7021528317107	-
831715	RU 0.6/1kV 2X 1.5mm ² P18	BLACK	-	7021528317152	-
831716	RU 0.6/1kV 3G 1.5mm ² P18	BLACK	-	7021528317169	-
831718	RU 0.6/1kV 3X 1.5mm ² P18	BLACK	-	7021528317183	-
831719	RU 0.6/1kV 4G 1.5mm ² P18	BLACK	-	7021528317190	-
831721	RU 0.6/1kV 4X 1.5mm ² P18	BLACK	-	7021528317213	-
831723	RU 0.6/1kV 7G 1.5mm ² P18	BLACK	-	7021528317237	-
831724	RU 0.6/1kV 5X 1.5mm ² P18	BLACK	-	7021528317244	-
831725	RU 0.6/1kV 7X 1.5mm ² P18	BLACK	-	7021528317251	-
831726	RU 0,6/1KV 12X 1,5 MM2 P18	BLACK	-	7021528317268	-
831728	RU 0.6/1kV 19X 1.5mm ² P18	BLACK	-	7021528317282	-
831729	RU 0,6/1KV 24X 1,5 MM2 P18	BLACK	-	7021528317299	-
831733	RU 0.6/1kV 2X 2.5mm ² P18	BLACK	-	7021528317336	-
831734	RU 0.6/1kV 3G 2.5mm ² P18	BLACK	-	7021528317343	1061434
831736	RU 0.6/1kV 3X 2.5mm ² P18	BLACK	-	7021528317367	-
831737	RU 0.6/1kV 4G 2.5mm ² P18	BLACK	-	7021528317374	1061437
831739	RU 0,6/1KV 4X 2,5 MM2 P18	BLACK	-	7021528317398	-
831740	RU 0.6/1kV 5G 2.5mm ² P18	BLACK	-	7021528317404	-
831743	RU 0,6/1KV 7X 2,5 MM2 P18	BLACK	-	7021528317435	-
831751	RU 0,6/1KV 2X 4 MM2 P18	BLACK	-	7021528317510	-



Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
831752	RU 0.6/1kV 3G 4mm ² P18	BLACK	-	7021528317527	-
831753	RU 0.6/1kV 3X 4mm ² P18	BLACK	-	7021528317534	-
831754	RU 0.6/1kV 4G 4mm ² P18	BLACK	-	7021528317541	-
831755	RU 0,6/1KV 4X 4 MM2 P18	BLACK	-	7021528317558	-
831756	RU 0,6/1KV 5G 4mm ² P18	BLACK	-	7021528317565	-
831759	RU 0,6/1KV 2X 6 MM2 P18	BLACK	-	7021528317596	-
831760	RU 0.6/1kV 3G 6mm ² P18	BLACK	-	7021528317602	-
831761	RU 0,6/1KV 3X 6MM2 P18	BLACK	-	7021528317619	-
831762	RU 0.6/1kV 4X 6mm ² P18	BLACK	-	7021528317626	-
831763	RU 0.6/1kV 5G 6mm ² P18	BLACK	-	7021528317633	-
831764	RU 0.6/1kV 4G 6mm ² P18	BLACK	-	7021528317640	-
831766	RU 0,6/1KV 2X 10 MM2 P18	BLACK	-	7021528317664	-
831767	RU 0,6/1KV 3X 10 MM2 P18	BLACK	-	7021528317671	-
831769	RU 0.6/1kV 4G 10mm ² P18	BLACK	-	7021528317695	-
831770	RU 0.6/1kV 5G 10mm ² P18	BLACK	-	7021528317701	-
831773	RU 0,6/1KV 3X 16 MM2 P18	BLACK	-	7021528317732	-
831774	RU 0,6/1KV 4X 16 MM2 P18	BLACK	-	7021528317749	-
831775	RU 0.6/1kV 3G 16mm ² P18	BLACK	-	7021528317756	-
831776	RU 0.6/1kV 4G 16mm ² P18	BLACK	-	7021528317763	-
831777	RU 0.6/1kV 5G 16mm ² P18	BLACK	-	7021528317770	-
831781	RU 0,6/1KV 4X 25 MM2 P18	BLACK	-	7021528317817	-
831782	RU 0.6/1kV 4G 25mm ² P18	BLACK	-	7021528317824	-
831785	RU 0,6/1KV 2X 35 MM2 P18	BLACK	-	7021528317855	-
831788	RU 0.6/1kV 4G 35mm ² P18	BLACK	-	7021528317886	-
831789	RU 0.6/1kV 5G 35mm ² P18	BLACK	-	7021528317893	-
831792	RU 0,6/1KV 3X 50 MM2 P18	BLACK	-	7021528317923	-
831796	RU 0.6/1kV 5G 50mm ² P18	BLACK	-	7021528317961	-
831798	RU 0,6/1KV 3X 70 MM2 P18	BLACK	-	7021528317985	-
831799	RU 0.6/1kV 5G 70mm ² P18	BLACK	-	7021528317992	-

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	50	0.391	0.499	0.089	0.107	196	7000
1	70	0.27	0.344	0.099	0.120	242	9800
1	95	0.195	0.249	0.084	0.101	293	13300
1	120	0.154	0.196	0.082	0.099	339	16800
1	150	0.126	0.161	0.082	0.098	389	21000
1	185	0.1	0.128	0.081	0.098	444	25900
1	240	0.0762	0.0972	0.080	0.096	522	33600
1	300	0.0607	0.0774	0.080	0.096	601	42000
2	1.5	12.2	15.6	0.110	0.132	20	210
3G	1.5	12.2	15.6	0.110	0.132	20	210
3	1.5	12.2	15.6	0.110	0.132	16	210
4G	1.5	12.2	15.6	0.110	0.132	16	210
4	1.5	12.2	15.6	0.110	0.132	16	210
7G	1.5	12.2	15.6	0.110	0.132	12.5	210
5	1.5	12.2	15.6	0.110	0.132	13.5	210
7	1.5	12.2	15.6	0.110	0.132	12	210
12	1.5	12.2	15.6	0.110	0.132	10	210
19	1.5	12.2	15.6	0.110	0.132	8.5	210
24	1.5	12.2	15.6	0.110	0.132	8	210
2	2.5	7.56	9.64	0.102	0.123	26	350
3G	2.5	7.56	9.64	0.103	0.123	26	350
3	2.5	7.56	9.64	0.103	0.123	21	350
4G	2.5	7.56	9.64	0.103	0.123	21	350
4	2.5	7.56	9.64	0.103	0.123	21	350



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
5G	2.5	7.56	9.64	0.103	0.123	21	350
7	2.5	7.56	9.64	0.103	0.123	15.5	350
2	4	4.7	5.99	0.096	0.115	34	560
3G	4	4.7	5.99	0.096	0.115	34	560
3	4	4.7	5.99	0.096	0.115	28	560
4G	4	4.7	5.99	0.096	0.115	28	560
4	4	4.7	5.99	0.096	0.115	28	560
5G	4	4.7	5.99	0.096	0.115	28	560
2	6	3.11	3.97	0.090	0.108	44	840
3G	6	3.11	3.97	0.090	0.108	44	840
3	6	3.11	3.97	0.090	0.108	36	840
4	6	3.11	3.97	0.090	0.108	36	840
5G	6	3.11	3.97	0.090	0.108	36	840
4G	6	3.11	3.97	0.090	0.108	36	840
2	10	1.84	2.35	0.084	0.101	61	1400
3	10	1.84	2.35	0.084	0.101	50	1400
4G	10	1.84	2.35	0.084	0.101	50	1400
5G	10	1.84	2.35	0.084	0.101	50	1400
3	16	1.16	1.48	0.080	0.096	67	2240
4	16	1.16	1.48	0.080	0.096	67	2240
3G	16	1.16	1.48	0.080	0.096	80	2240
4G	16	1.16	1.48	0.080	0.096	67	2240
5G	16	1.16	1.48	0.103	0.123	67	2240
4	25	0.734	0.936	0.079	0.095	89	3500
4G	25	0.734	0.936	0.079	0.095	89	3500
2	35	0.529	0.675	0.076	0.092	133	4900
4G	35	0.529	0.675	0.076	0.092	110	4900
5G	35	0.529	0.675	0.076	0.092	110	4900
3	50	0.391	0.499	0.076	0.092	137	7000
5G	50	0.391	0.499	0.076	0.092	137	7000
3	70	0.27	0.344	0.075	0.091	169	9800
5G	70	0.27	0.344	0.076	0.092	169	9800

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