

# RU 0.6/1 (1.2)kV P18

## EPR/EVA

Halogen-free, mud resistant, flame retardant, un-armoured power cable



### Application

Fixed installation for power, control and lightning in both EX- and safe areas, general purposes. For installation in areas exposed to MUD and drilling/cleaning fluids. Meets the OIL & 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>	: 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 RU 0,6/1KV P18 3 x 2,5 mm <sup>2</sup> , 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
--------------------------	---------

T : +31 (0)168 468 100

E : [sales@incore-cables.com](mailto:sales@incore-cables.com)

I : [www.incore-cables.com](http://www.incore-cables.com)

# RU 0.6/1 (1.2)kV P18

## 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)
N04D01C025BAK BK4	1	25	11.5	340
N04D01C050BAK BK4	1	50	14.5	610
N04D01C070BAK BK4	1	70	16.5	820
N04D01C095BAK BK4	1	95	19	1110
N04D01C120BAK BK4	1	120	20.5	1370
N04D01C150BAK BK4	1	150	23	1710
N04D01C185BAK BK4	1	185	25.5	2090
N04D01C240BAK BK4	1	240	28.5	2680
N04D01C300BAK BK4	1	300	31.5	3370
N04D02C1.5BWWBK4	2	1.5	9.5	135
N04D03C1.5BBABK4	3	1.5	10	160
N04D04C1.5BB CBK4	4	1.5	11	190
N04D05C1.5BB GBK4	5	1.5	12	240
N04D07C1.5BAABK4	7	1.5	12.5	280
N04D12C1.5BAABK4	12	1.5	16.5	460
N04D19C1.5BAABK4	19	1.5	19.5	680
N04D24C1.5BAABK4	24	1.5	25	890
N04D03C1.5BFFBK4	3G	1.5	10	160
N04D04C1.5BBEBK4	4G	1.5	11	190
N04D05C1.5BDBK4	5G	1.5	12	240
N04D07C1.5BVVBK4	7G	1.5	12.5	280
N04D02C2.5BWWBK4	2	2.5	10.5	170
N04D03C2.5BBABK4	3	2.5	11	205
N04D04C2.5BB CBK4	4	2.5	12	250
N04D05C2.5BB GBK4	5	2.5	13.5	320
N04D07C2.5BAABK4	7	2.5	14	390
N04D03C2.5BFFBK4	3G	2.5	11	205
N04D04C2.5BBEBK4	4G	2.5	12	255
N04D05C2.5BDBK4	5G	2.5	13.5	320
N04D02C004BWWBK4	2	4	11.5	220
N04D03C004BBABK4	3	4	12	275
N04D04C004BB CBK4	4	4	13.5	340
N04D03C004BFFBK4	3G	4	12	275
N04D04C004BBEBK4	4G	4	13.5	340
N04D05C004BBDBK4	5G	4	15	410
N04D02C006BWWBK4	2	6	12.5	290
N04D03C006BBABK4	3	6	13.5	360
N04D04C006BB GBK4	4	6	15	450
N04D03C006BFFBK4	3G	6	13.5	360
N04D04C006BBEBK4	4G	6	15	450

T : +31 (0)168 468 100

E : sales@incore-cables.com

I : www.incore-cables.com

# RU 0.6/1 (1.2)kV P18

Article Code	Number of elements	Size Cross-Section in mm <sup>2</sup>	Nominal diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)
N04D05C006BBDBK4	5G	6	16.5	550
N04D02C010BWVWBK4	2	10	14.5	410
N04D03C010BBABK4	3	10	15.5	530
N04D04C010BBEBK4	4G	10	17.5	660
N04D05C010BBDBK4	5G	10	19	820
N04D02C016BWVWBK4	2	16	17	600
N04D03C016BBABK4	3	16	18.5	780
N04D04C016BBEBK4	4	16	20	950
N04D03C016BFFBK4	3G	16	18.5	780
N04D04C016BBEBK4	4G	16	20	980
N04D05C016BBDBK4	5G	16	22.5	1200
N04D02C025BWVWBK4	2	25	20.5	900
N04D03C025BBABK4	3	25	22.5	1170
N04D04C025BBGBK4	4	25	24.5	1420
N04D04C025BBEBK4	4G	25	25	1500
N04D02C035BWVWBK4	2	35	23	1150
N04D03C035BBABK4	3	35	25	1520
N04D04C035BBEBK4	4G	35	28	1950
N04D05C035BBDBK4	5G	35	31	2370
N04D03C050BBABK4	3	50	29.5	2090
N04D05C050BBDBK4	5G	50	36.5	3310
N04D03C070BBABK4	3	70	34	2900
N04D05C070BBDBK4	5G	70	42	4550

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	25	0.734	0.499	0.094	0.113	127	3500
1	50	0.391	0.499	0.09	0.108	196	7000
1	70	0.27	0.344	0.085	0.102	242	9800
1	95	0.195	0.249	0.085	0.102	293	13300
1	120	0.154	0.196	0.083	0.1	339	16800
1	150	0.126	0.161	0.082	0.099	389	21000
1	185	0.1	0.128	0.082	0.098	444	25900
1	240	0.0762	0.0972	0.081	0.098	522	33600
1	300	0.0607	0.0774	0.08	0.096	601	42000
2	1.5	12.2	15.6	0.11	0.132	20	210
3	1.5	12.2	15.6	0.11	0.132	16	210
4	1.5	12.2	15.6	0.11	0.132	16	210
5	1.5	12.2	15.6	0.11	0.132	13.5	210
7	1.5	12.2	15.6	0.11	0.132	12	210
12	1.5	12.2	15.6	0.11	0.132	10	210
19	1.5	12.2	15.6	0.11	0.132	8.5	210
24	1.5	12.2	15.6	0.11	0.132	8	210
3G	1.5	12.2	15.6	0.11	0.132	20	210
4G	1.5	12.2	15.6	0.11	0.132	16	210
5G	1.5	12.2	15.6	0.11	0.132	16	210
7G	1.5	12.2	15.6	0.11	0.132	12.5	210
2	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
4	2.5	7.56	9.64	0.103	0.123	21	350
5	2.5	7.56	9.64	0.103	0.123	17.5	350
7	2.5	7.56	9.64	0.103	0.123	15.5	350
3G	2.5	7.56	9.64	0.103	0.123	26	350
4G	2.5	7.56	9.64	0.103	0.123	21	350

T : +31 (0)168 468 100

E : sales@incore-cables.com

I : www.incore-cables.com



# RU 0.6/1 (1.2)kV P18

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
5G	2.5	7.56	9.64	0.103	0.123	21	350
2	4	4.7	5.99	0.096	0.115	34	560
3	4	4.7	5.99	0.096	0.115	28	560
4	4	4.7	5.99	0.096	0.115	28	560
3G	4	4.7	5.99	0.096	0.115	34	560
4G	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	0.09	0.108	44	840
3	6	3.11	3.97	0.09	0.108	36	840
4	6	3.11	3.97	0.09	0.108	36	840
3G	6	3.11	3.97	0.09	0.108	44	840
4G	6	3.11	3.97	0.09	0.108	36	840
5G	6	3.11	3.97	0.09	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
2	16	1.16	1.48	0.08	0.096	80	2240
3	16	1.16	1.48	0.08	0.096	67	2240
4	16	1.16	1.48	0.08	0.096	67	2240
3G	16	1.16	1.48	0.08	0.096	80	2240
4G	16	1.16	1.48	0.08	0.096	67	2240
5G	16	1.16	1.48	0.08	0.096	67	2240
2	25	0.734	0.936	0.079	0.095	108	3500
3	25	0.734	0.936	0.079	0.095	89	3500
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
3	35	0.529	0.675	0.076	0.092	110	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	0.074	0.088	169	9800
5G	70	0.27	0.344	0.074	0.088	169	9800

**NOTICE**

Incore Cables has endeavored to ensure the accuracy of the data in this publication, however we cannot be liable for the consequences of errors or omissions. All data is subject to change without notice. The installer and/or user assumes all liability for the consequences of the installation and/or use of any of our products in contravention of any applicable law, regulation or code.

**T : +31 (0)168 468 100**

**E : sales@incore-cables.com**

**I : www.incore-cables.com**

