

RFOU 0.6/1 (1.2)kV P1 P8

EPR/TCWB/EVA

Halogen-free, mud resistant, flame retardant power cable



Application

Fixed installation for power, control and lighting in both EX (Zone 0, 1 & 2)- and safe areas, general purposes. For installation in areas exposed to MUD and drilling/cleaning fluids. Meets the MUD resistance requirement in NEK TS 606:2009.

Construction

Conductor	: Tinned annealed stranded circular copper (STCC), IEC 60228 class 2
Insulation	: EP-rubber, IEC 60092-360 (EPR)
Lay up / Shielding	: Cores laid up in concentric layers
Inner covering	: Flame retardant and halogen-free thermoset compound
Tape over inner covering	: PET tape
Armour/screen	: Tinned annealed copper wire braid
Tape over armour/screen	: PET tape
Outer sheath	: Flame retardant, halogen-free and mud resistant thermoset compound, SHF2 (IEC 60092-360)
Marking text	: E.g. "meter" "year" manufacturer RFOU 0,6/1KV P1/P8 3 x 35/16 mm ² , IEC 60332-3-22

Core identification

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

Outer Sheath Colours

Available colours	: 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 60754-1,2	Halogen Free
IEC 61034-1,2	Low Smoke

Range and Dimensions

Article Code	Number of elements	Size Cross-Section in mm ²	Nominal diameter inner covering, mm	Diameter braid wire, mm	Mechanical cross section of the braid, mm ²	Nominal diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)
N02D01C016BAKBK4	1	16	9.5	0.2	4.5	13	360
N02D01C025BAKBK4	1	25	11.5	0.2	5.3	14.5	490
N02D01C035BAKBK4	1	35	12.5	0.3	10.2	16	650
N02D01C050BAKBK4	1	50	14.5	0.3	10.2	18.5	840
N02D01C070BAKBK4	1	70	16.5	0.3	12.7	20.5	1110
N02D01C095BAKBK4	1	95	18.5	0.3	12.7	23	1400
N02D01C120BAKBK4	1	120	20.5	0.3	15.3	25	1720
N02D01C150BAKBK4	1	150	22.5	0.3	15.3	27	2060
N02D01C185BAKBK4	1	185	24.5	0.3	17.8	29.5	2480
N02D01C240BAKBK4	1	240	27.5	0.3	20.4	32.5	3130
N02D01C300BAKBK4	1	300	30.5	0.3	20.4	35.5	3840
N02D01C400BAKBK4	1	400	34.5	0.4	31.7	40.5	5070
N02D01C500BAKBK4	1	500	38	0.4	36.2	44	6220
N02D01C630BAKBK4	1	630	41.5	0.4	40.7	48	7650
N02D01C1.5BWWBK4	2	1.5	9.5	0.2	5.3	12.5	270
N02D03C1.5BBABK4	3	1.5	10	0.2	5.3	13.5	295
N02D04C1.5BBCBK4	4	1.5	11	0.3	8.5	14.5	380
N02D05C1.5BBGBK4	5	1.5	12	0.3	10.2	15.5	440
N02D07C1.5BAABK4	7	1.5	12	0.3	10.2	16	480
N02D12C1.5BAABK4	12	1.5	16	0.3	13.6	20	720
N02D19C1.5BAABK4	19	1.5	19	0.3	15.3	23	990
N02D27C1.5BAABK4	27	1.5	22.5	0.3	17.8	27	1310
N02D37C1.5BAABK4	37	1.5	25	0.3	20.4	30	1670
N02D03C1.5BFFBK4	3G	1.5	10	0.2	5.3	13.5	295
N02D04C1.5BBEBK4	4G	1.5	11	0.3	8.5	14.5	380
N02D05C1.5BBDBK4	5G	1.5	12	0.3	10.2	15.5	440
N02D07C1.5BVVBK4	7G	1.5	12	0.3	10.2	16	480
N02D02C2.5BNNBK4	2	2.5	10.5	0.2	5.3	13.5	320
N02D03C2.5BBABK4	3	2.5	11	0.3	8.5	14.5	390
N02D04C2.5BBCBK4	4	2.5	12	0.3	10.2	16	460
N02D05C2.5BBGBK4	5	2.5	13	0.3	10.2	17	530
N02D07C2.5BAABK4	7	2.5	13.5	0.3	11.9	17.5	610
N02D12C2.5BAABK4	12	2.5	18	0.3	15.3	22	930
N02D19C2.5BAABK4	19	2.5	21	0.3	17.8	25.5	1280
N02D27C2.5BAABK4	27	2.5	25	0.3	20.4	30	1720
N02D37C2.5BAABK4	37	2.5	28.5	0.3	22.9	34	2240
N02D03C2.5BFFBK4	3G	2.5	11	0.3	8.5	14.5	390
N02D04C2.5BBEBK4	4G	2.5	12	0.3	10.2	16	460
N02D05C2.5BBDBK4	5G	2.5	13	0.3	10.2	17	530

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N02D07C2.5BVVBK4	7G	2.5	13.5	0.3	11.9	17.5	610
N02D02C004BNNBK4	2	4	11.5	0.3	8.5	15	410
N02D03C004BBABK4	3	4	12	0.3	10.2	16	480
N02D04C004BBCBK4	4	4	13.5	0.3	10.2	17	560
N02D05C004BBGBK4	5	4	14.5	0.3	11.9	18.5	660
N02D03C004BFFBK4	3G	4	12	0.3	10.2	16	480
N02D04C004BBEBK4	4G	4	13.5	0.3	10.2	17	560
N02D05C004BBDBK4	5G	4	14.5	0.3	11.9	18.5	660
N02D02C006BNNBK4	2	6	12.5	0.3	10.2	16.5	500
N02D03C006BBABK4	3	6	13.5	0.3	10.2	17.5	590
N02D04C006BBCBK4	4	6	15	0.3	11.9	18.5	700
N02D03C006BFFBK4	3G	6	13.5	0.3	10.2	17.5	590
N02D04C006BBEBK4	4G	6	15	0.3	11.9	18.5	700
N02D05C006BBDBK4	5G	6	16.5	0.3	11.9	20.5	820
N02D02C010BNNBK4	2	10	14.5	0.3	11.9	18.5	670
N02D03C010BBABK4	3	10	15.5	0.3	11.9	19.5	780
N02D04C010BBCBK4	4	10	17	0.3	13.6	21	950
N02D03C010BFFBK4	3G	10	15.5	0.3	11.9	19.5	780
N02D04C010BBEBK4	4G	10	17	0.3	13.6	21	950
N02D05C010BBDBK4	5G	10	19	0.3	15.3	23	1140
N02D02C016BNNBK4	2	16	16.5	0.4	18.1	21	950
N02D03C016BBABK4	3	16	17.5	0.4	18.1	22.5	1120
N02D04C016BBCBK4	4	16	20	0.4	22.6	24.5	1400
N02D05C016BBGBK4	5	16	22	0.3	20.4	26	1590
N02D03C016BFFBK4	3G	16	17.5	0.3	13.6	22	1060
N02D04C016BBEBK4	4G	16	20	0.3	15.3	24	1310
N02D05C016BBDBK4	5G	16	22	0.3	15.3	26	1540
N02D02C025BNNBK4	2	25	20.5	0.4	22.6	25.5	1340
N02D03C025BBABK4	3	25	22	0.3	20.4	26	1560
N02D04C025BBCBK4	4	25	24	0.3	20.4	28.5	1910
N02D03C025BFFBK4	3G	25	22	0.3	15.3	26	1510
N02D04C025BBEBK4	4G	25	24	0.3	17.8	28.5	1890
N02D05C025BBDBK4	5G	25	26.5	0.3	20.4	31.5	2260
N02D02C035BNNBK4	2	35	23	0.3	20.4	27.5	1600
N02D03C035BBABK4	3	35	24.5	0.3	20.4	29	1930
N02D04C035BBCBK4	4	35	27	0.3	20.4	31.5	2380
N02D04C035BBEBK4	4G	35	27	0.3	20.4	31.5	2380
N02D05C035BBDBK4	5G	35	30	0.3	22.9	35	2870
N02D02C050BNNBK4	2	50	26.5	0.4	31.7	31.5	2190
N02D03C050BBABK4	3	50	28.5	0.4	31.7	34	2680
N02D04C050BBCBK4	4	50	32	0.4	31.7	37.5	3320
N02D04C050BBEBK4	4G	50	32	0.3	22.9	37	3230
N02D05C050BBDBK4	5G	50	35	0.4	36.2	41	4030
N02D02C070BNNBK4	2	70	30.5	0.6	50.9	36.5	3040
N02D03C070BBABK4	3	70	33	0.5	49.5	39	3730
N02D04C070BBCBK4	4	70	36.5	0.5	49.5	43	4600
N02D05C070BBGBK4	5	70	40.5	0.4	45.2	46.5	5440
N02D04C070BBEBK4	4G	70	36.5	0.4	36.2	42.5	4470
N02D05C070BBDBK4	5G	70	40.5	0.4	36.2	46.5	5360
N02D02C095BNNBK4	2	95	35	0.6	61.1	41.5	3960
N02D03C095BBABK4	3	95	37.5	0.5	56.5	43.5	4830
N02D04C095BBCBK4	4	95	41.5	0.5	63.6	48.5	6020
N02D04C095BBEBK4	4G	95	41.5	0.4	40.7	48	5790
N02D02C120BNNBK4	2	120	38	0.6	71.3	45	4810
N02D03C120BBABK4	3	120	41	0.6	71.3	48	5950
N02D04C120BBCBK4	4	120	46	0.6	71.3	53.5	7440
N02D04C120BBEBK4	4G	120	46	0.4	45.2	52.5	7120
N02D05C120BBDBK4	5G	120	51	0.5	49.5	58.5	8610
N02D04C150BBEBK4	4G	150	51	0.5	49.5	58.5	8790

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N02D05C150BBDBK4	5G	150	57	0.5	63.6	64.5	10725
N02D04C150BBEBK4	4G	185	56.5	0.5	56.5	64.5	10700

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

Electrical value instrumentation cables, Conductor type 2 STCC

Number of elements	Size Cross-Section in mm ²	Electrical Cross section braid, 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	2.5	1.16	1.48	0.116	0.140	96	2240
1	25	4	0.734	0.936	0.110	0.132	127	3500
1	35	6	0.529	0.675	0.106	0.128	157	4900
1	50	6	0.391	0.499	0.104	0.125	196	7000
1	70	10	0.27	0.344	0.099	0.119	242	9800
1	95	10	0.195	0.249	0.097	0.116	293	13300
1	120	10	0.154	0.196	0.094	0.113	339	16800
1	150	10	0.126	0.161	0.092	0.111	389	21000
1	185	10	0.1	0.128	0.091	0.109	444	25900
1	240	16	0.0762	0.0972	0.089	0.107	522	33600
1	300	16	0.0607	0.0774	0.087	0.105	601	42000
2	1.5	4	12.2	15.6	0.110	0.132	20	210
3	1.5	4	12.2	15.6	0.110	0.132	16	210
4	1.5	6	12.2	15.6	0.110	0.132	16	210
5	1.5	6	12.2	15.6	0.110	0.132	13.5	210
7	1.5	6	12.2	15.6	0.110	0.132	12	210
12	1.5	10	12.2	15.6	0.110	0.132	10	210
19	1.5	10	12.2	15.6	0.110	0.132	8.5	210
27	1.5	10	12.2	15.6	0.110	0.132	7.5	210
37	1.5	16	12.2	15.6	0.110	0.132	7	210
3G	1.5	-	12.2	15.6	0.110	0.132	20	210
4G	1.5	-	12.2	15.6	0.110	0.132	16	210
5G	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
2	2.5	4	7.56	9.64	0.103	0.123	26	350
3	2.5	6	7.56	9.64	0.103	0.123	21	350
4	2.5	6	7.56	9.64	0.103	0.123	21	350
5	2.5	6	7.56	9.64	0.103	0.123	17.5	350
7	2.5	6	7.56	9.64	0.103	0.123	15.5	350
12	2.5	10	7.56	9.64	0.103	0.123	13	350
19	2.5	10	7.56	9.64	0.103	0.123	11	350
27	2.5	16	7.56	9.64	0.103	0.123	10	350
37	2.5	16	7.56	9.64	0.103	0.123	9	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
5G	2.5	-	7.56	9.64	0.103	0.123	21	350
7G	2.5	-	7.56	9.64	0.103	0.123	16.5	350
2	4	6	4.7	5.99	0.096	0.115	34	560
3	4	6	4.7	5.99	0.096	0.115	28	560
4	4	6	4.7	5.99	0.096	0.115	28	560
5	4	6	4.7	5.99	0.096	0.115	23.5	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	6	3.11	3.97	0.090	0.108	44	840
3	6	6	3.11	3.97	0.090	0.108	36	840
4	6	6	3.11	3.97	0.090	0.108	36	840

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3G	6	-	3.11	3.97	0.090	0.108	44	840
4G	6	-	3.11	3.97	0.090	0.108	36	840
5G	6	-	3.11	3.97	0.090	0.108	36	840
2	10	10	1.84	2.35	0.084	0.101	61	1400
3	10	10	1.84	2.35	0.084	0.101	50	1400
4	10	10	1.84	2.35	0.084	0.101	50	1400
3G	10	-	1.84	2.35	0.084	0.101	61	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	16	1.16	1.48	0.080	0.096	80	2240
3	16	16	1.16	1.48	0.080	0.096	67	2240
4	16	16	1.16	1.48	0.080	0.096	67	2240
5	16	16	1.16	1.48	0.080	0.096	56	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	0.080	0.096	67	2240
2	25	16	0.734	0.936	0.079	0.095	108	3500
3	25	16	0.734	0.936	0.079	0.095	89	3500
4	25	16	0.734	0.936	0.079	0.095	89	3500
3G	25	-	0.734	0.936	0.079	0.095	108	3500
4G	25	-	0.734	0.936	0.079	0.095	89	3500
5G	25	-	0.734	0.936	0.079	0.095	89	3500
2	35	16	0.529	0.675	0.076	0.092	133	4900
3	35	16	0.529	0.675	0.076	0.092	110	4900
4	35	16	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
2	50	25	0.391	0.499	0.076	0.092	167	7000
3	50	25	0.391	0.499	0.076	0.092	137	7000
4	50	25	0.391	0.499	0.076	0.092	137	7000
4G	50	-	0.391	0.499	0.076	0.092	137	7000
5G	50	-	0.391	0.499	0.076	0.092	137	7000
2	70	35	0.27	0.344	0.074	0.088	206	9800
3	70	35	0.27	0.344	0.074	0.088	169	9800
4	70	35	0.27	0.344	0.074	0.088	169	9800
5	70	35	0.27	0.344	0.074	0.088	141.5	9800
4G	70	-	0.27	0.344	0.074	0.088	169	9800
5G	70	-	0.27	0.344	0.074	0.088	169	9800
2	95	50	0.195	0.249	0.073	0.088	249	13300
3	95	50	0.195	0.249	0.073	0.088	205	13300
4	95	50	0.195	0.249	0.073	0.088	205	13300
4G	95	-	0.195	0.249	0.073	0.088	205	13300
2	120	60	0.154	0.196	0.072	0.086	288	16800
3	120	60	0.154	0.196	0.072	0.086	237	16800
4	120	60	0.154	0.196	0.072	0.086	237	16800
4G	120	-	0.154	0.196	0.072	0.086	237	16800
5G	120	-	0.154	0.196	0.072	0.086	237	16800
4G	150	-	0.126	0.161	0.072	0.087	272	21000
5G	150	-	0.126	0.161	0.072	0.087	272	21000
4G	185	-	0.1	0.128	0.072	0.086	311	25900

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.

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