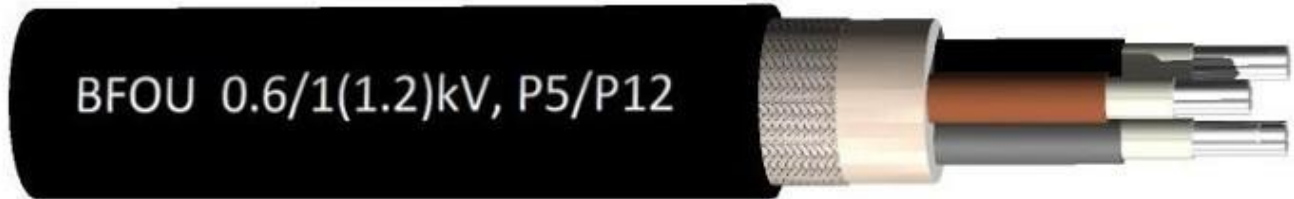


BFOU 0.6/1 (1.2)kV P5 P12

EPR/EPR/TCWB/EVA

Halogen-free, mud resistant, fire resistant, flame retardant power cable



Application

Fixed installation for power, control and lighting in both EX (Zone 0, 1 & 2)- and 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.

Construction

Conductor	: Tinned annealed stranded circular copper (STCC), IEC 60228 class 2
Insulation	: Mica-tape + 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 BFOU 0,6/1kV P5/P12 3 x 25/16 mm ² , IEC 60331-1or IEC 60331-2 IEC 60331-21 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	Nominal diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)
N05D01C016BAKBK4	1	16	10	13	370
N05D01C025BAKBK4	1	25	11.5	15.5	530
N05D01C035BAKBK4	1	35	13	16.5	660
N05D01C050BAKBK4	1	50	15	18.5	870
N05D01C070BAKBK4	1	70	16.5	20.5	1120
N05D01C095BAKBK4	1	95	18.5	23	1430
N05D01C120BAKBK4	1	120	20.5	25	1730
N05D01C150BAKBK4	1	150	23	27.5	2120
N05D01C185BAKBK4	1	185	25	29.5	2500
N05D01C240BAKBK4	1	240	28	33	3150
N05D01C300BAKBK4	1	300	30.5	36	3890
N05D02C1.5BWVWBK4	2	1.5	10	13	285
N05D03C1.5BBABK4	3	1.5	10.5	14.5	360
N05D04C1.5BBCKBK4	4	1.5	11.5	15.5	410
N05D05C1.5BBGBK4	5	1.5	13	16.5	480
N05D07C1.5BAABK4	7	1.5	13	17	540
N05D12C1.5BAABK4	12	1.5	17	21.5	800
N05D19C1.5BAABK4	19	1.5	20.5	25	1090
N05D27C1.5BAABK4	27	1.5	24	29	1440
N05D32C1.5BAABK4	32	1.5	26.5	31.5	1740
N05D37C1.5BAABK4	37	1.5	27.5	32.5	1860
N05D03C1.5BFFBK4	3G	1.5	10.5	14.5	360
N05D04C1.5BBEBK4	4G	1.5	11.5	15.5	410
N05D05C1.5BDBK4	5G	1.5	13	16.5	480
N05D02C2.5BWVWBK4	2	2.5	11	14.5	370
N05D03C2.5BBABK4	3	2.5	11.5	15	420
N05D04C2.5BBCKBK4	4	2.5	12.5	16.5	480
N05D05C2.5BBGBK4	5	2.5	14	18	570
N05D07C2.5BAABK4	7	2.5	14	18	630
N05D12C2.5BAABK4	12	2.5	19	23	990
N05D19C2.5BAABK4	19	2.5	22.5	27	1370
N05D27C2.5BAABK4	27	2.5	27	32	1860
N05D37C2.5BAABK4	37	2.5	30.5	36.5	2510
N05D03C2.5BFFBK4	3G	2.5	11.5	15	420
N05D04C2.5BBEBK4	4G	2.5	12.5	16.5	480
N05D05C2.5BDBK4	5G	2.5	14	18	570
N05D07C2.5BVVBK4	7G	2.5	14	18	630
N05D08C2.5BVVBK4	8G	2.5	19.5	23.5	790
N05D02C004BWVWBK4	2	4	12	15.5	450
N05D03C004BBABK4	3	4	13	16.5	510
N05D04C004BBCKBK4	4	4	14	18	610
N05D05C004BBGBK4	5	4	15.5	19.5	690

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Article Code	Number of elements	Size Cross-Section in mm ²	Nominal diameter inner covering, mm	Nominal diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)
N05D03C004BFFBK4	3G	4	13	16.5	510
N05D04C004BBEBK4	4G	4	14	18	610
N05D05C004BBDBK4	5G	4	15.5	19.5	690
N05D02C006BWVWBK4	2	6	13	17	530
N05D03C006BBABK4	3	6	14	18	630
N05D04C006BBCBK4	4	6	15.5	19.5	720
N05D03C004BFFBK4	3G	6	14	18	630
N05D04C004BBEBK4	4G	6	15.5	19.5	720
N05D05C004BBCBK4	5G	6	17	21.5	880
N05D02C010BWVWBK4	2	10	15	19	690
N05D03C010BBABK4	3	10	16	20	810
N05D04C010BBCBK4	4	10	18	22	970
N05D03C010BFFBK4	3G	10	16	20	810
N05D04C010BBEBK4	4G	10	18	22	970
N05D05C010BBDBK4	5G	10	20	24	1180
N05D02C016BWVWBK4	2	16	17.5	22	990
N05D03C016BBABK4	3	16	18.5	23	1170
N05D04C016BBCBK4	4	16	20.5	25.5	1410
N05D05C016BBGBK4	5	16	23	27.5	1640
N05D03C016BFFBK4	3G	16	18.5	22.5	1090
N05D04C016BBEBK4	4G	16	20.5	25	1330
N05D05C016BBDBK4	5G	16	23	27.5	1610
N05D02C025BWVWBK4	2	25	21	26	1370
N05D03C025BBABK4	3	25	22.5	27	1600
N05D04C025BBCBK4	4	25	25	29.5	1960
N05D03C025BFFBK4	3G	25	22.5	27	1580
N05D04C025BBEBK4	4G	25	25	29.5	1930
N05D05C025BBDBK4	5G	25	27.5	32	2290
N05D02C035BWVWBK4	2	35	23.5	28	1640
N05D03C035BBABK4	3	35	25	30	2000
N05D04C035BBCBK4	4	35	28	33	2460
N05D03C035BFFBK4	3G	35	25	30	1980
N05D04C035BBEBK4	4G	35	28	33	2460
N05D05C035BBDBK4	5G	35	31	36.5	3000
N05D02C050BWVWBK4	2	50	27.5	32.5	2270
N05D03C050BBABK4	3	50	29	34.5	2730
N05D04C050BBCBK4	4	50	32.5	38	3370
N05D03C050BFFBK4	3G	50	29	34	2640
N05D04C050BBEBK4	4G	50	32.5	38	3280
N05D05C050BBDBK4	5G	50	36	42	4110
N05D02C070BWVWBK4	2	70	31.5	38	3190
N05D03C070BBABK4	3	70	33.5	39	3760
N05D04C070BBCBK4	4	70	37	43	4600
N05D03C070BFFBK4	3G	70	33.5	38.5	3520
N05D04C070BBEBK4	4G	70	37	43	4510
N05D05C070BBDBK4	5G	70	41	47	5440
N05D03C095BBABK4	3	95	38	44.5	4930
N05D04C095BBCBK4	4	95	42.5	49.5	6130
N05D03C095BFFBK4	3G	95	38	44	4640
N05D04C095BBEBK4	4G	95	42.5	49	5890
N05D05C095BBDBK4	5G	95	47	54	7130
N05D03C120BBABK4	3	120	41.5	48.5	6020
N05D04C120BBCBK4	4	120	46.5	53.5	7460
N05D03C120BBEBK4	4G	120	46.5	53	7170
N05D04C150BBEBK4	4G	150	52	59.5	8900
N05D05C150BBDBK4	5G	150	58	66	10900
N05D04C185BBEBK4	4G	185	57.5	65.5	10830

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

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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	4	1.16	1.48	0.118	0.142	96	2240
1	25	6	0.734	0.936	0.114	0.136	127	3500
1	35	6	0.529	0.675	0.108	0.129	157	4900
1	50	10	0.391	0.499	0.105	0.126	196	7000
1	70	10	0.27	0.344	0.1	0.12	242	9800
1	95	10	0.195	0.249	0.097	0.116	293	13300
1	120	10	0.154	0.196	0.095	0.114	339	16800
1	150	10	0.126	0.161	0.094	0.112	389	21000
1	185	10	0.1	0.128	0.092	0.11	444	25900
1	240	16	0.0762	0.0972	0.09	0.108	522	33600
1	300	16	0.0607	0.0774	0.088	0.106	601	42000
2	1.5	4	12.2	15.6	0.115	0.138	20	210
3	1.5	6	12.2	15.6	0.115	0.138	16	210
4	1.5	6	12.2	15.6	0.115	0.138	16	210
5	1.5	6	12.2	15.6	0.115	0.138	13.5	210
7	1.5	6	12.2	15.6	0.115	0.138	12	210
12	1.5	10	12.2	15.6	0.115	0.138	10	210
19	1.5	10	12.2	15.6	0.115	0.138	8.5	210
27	1.5	16	12.2	15.6	0.115	0.138	7.5	210
32	1.5	16	12.2	15.6	0.115	0.138	7	210
37	1.5	16	12.2	15.6	0.115	0.138	7	210
3G	1.5	-	12.2	15.6	0.115	0.138	20	210
4G	1.5	-	12.2	15.6	0.115	0.138	16	210
5G	1.5	-	12.2	15.6	0.115	0.138	16	210
2	2.5	6	7.56	9.64	0.107	0.129	26	350
3	2.5	6	7.56	9.64	0.107	0.129	21	350
5	2.5	6	7.56	9.64	0.107	0.129	17.5	350
4	2.5	6	7.56	9.64	0.107	0.129	21	350
7	2.5	6	7.56	9.64	0.107	0.129	15.5	350
12	2.5	10	7.56	9.64	0.107	0.129	13	350
19	2.5	16	7.56	9.64	0.107	0.129	11	350
27	2.5	16	7.56	9.64	0.107	0.129	10	350
37	2.5	25	7.56	9.64	0.107	0.129	9	350
3G	2.5	-	7.56	9.64	0.107	0.129	26	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
7G	2.5	-	7.56	9.64	0.107	0.129	16.5	350
8G	2.5	-	7.56	9.64	0.107	0.129	15.5	350
2	4	6	4.7	5.99	0.100	0.120	34	560
3	4	6	4.7	5.99	0.100	0.120	28	560
4	4	6	4.7	5.99	0.1	0.120	28	560
5	4	6	4.7	5.99	0.1	0.120	23.5	560
3G	4	-	4.7	5.99	0.1	0.120	34	560
4G	4	-	4.7	5.99	0.1	0.120	28	560
5G	4	-	4.7	5.99	0.1	0.120	28	560
2	6	6	3.11	3.97	0.094	0.112	44	840
3	6	6	3.11	3.97	0.094	0.112	36	840
4	6	6	3.11	3.97	0.094	0.112	36	840
3G	6	-	3.11	3.97	0.094	0.112	44	840
4G	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	10	1.84	2.35	0.088	0.105	61	1400
3	10	10	1.84	2.35	0.088	0.105	50	1400
4	10	10	1.84	2.35	0.088	0.105	50	1400
3G	10	-	1.84	2.35	0.088	0.105	61	1400
4G	10	-	1.84	2.35	0.088	0.105	50	1400
5G	10	-	1.84	2.35	0.088	0.105	50	1400
2	16	16	1.16	1.48	0.082	0.099	80	2240
3	16	16	1.16	1.48	0.082	0.099	67	2240

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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
4	16	16	1.16	1.48	0.082	0.099	67	2240
5	16	16	1.16	1.48	0.082	0.099	56	2240
4G	16	-	1.16	1.48	0.082	0.099	67	2240
5G	16	-	1.16	1.48	0.082	0.099	67	2240
2	25	16	0.734	0.936	0.081	0.098	108	3500
3	25	16	0.734	0.936	0.081	0.098	89	3500
4	25	16	0.734	0.936	0.081	0.098	89	3500
3G	25	-	0.734	0.936	0.081	0.098	108	3500
4G	25	-	0.734	0.936	0.081	0.098	89	3500
5G	25	-	0.734	0.936	0.081	0.098	89	3500
2	35	16	0.529	0.675	0.078	0.094	133	4900
3	35	16	0.529	0.675	0.078	0.094	110	4900
4	35	16	0.529	0.675	0.078	0.094	110	4900
3G	35	-	0.529	0.675	0.078	0.094	133	4900
4G	35	-	0.529	0.675	0.078	0.094	110	4900
5G	35	-	0.529	0.675	0.078	0.094	110	4900
2	50	25	0.391	0.499	0.078	0.094	167	7000
3	50	25	0.391	0.499	0.078	0.093	137	7000
4	50	25	0.391	0.499	0.078	0.093	137	7000
3G	50	-	0.391	0.499	0.078	0.093	167	7000
4G	50	-	0.391	0.499	0.078	0.093	137	7000
5G	50	-	0.391	0.499	0.078	0.093	137	7000
2	70	35	0.27	0.344	0.075	0.092	206	9800
3	70	35	0.27	0.344	0.077	0.092	169	9800
4	70	35	0.27	0.344	0.077	0.092	169	9800
3G	70	-	0.27	0.344	0.075	0.092	206	9800
4G	70	-	0.27	0.344	0.075	0.092	169	9800
5G	70	-	0.27	0.344	0.075	0.092	169	9800
3	95	50	0.195	0.249	0.075	0.090	205	13300
4	95	50	0.195	0.249	0.075	0.090	205	13300
3G	95	-	0.195	0.249	0.075	0.090	249	13300
4G	95	-	0.195	0.249	0.075	0.090	205	13300
5G	95	-	0.195	0.249	0.075	0.090	205	13300
3	120	60	0.154	0.196	0.073	0.088	237	16800
4	120	60	0.154	0.196	0.073	0.088	237	16800
4G	120	-	0.154	0.196	0.073	0.088	237	16800
4G	150	-	0.126	0.161	0.073	0.088	272	21000
4G	185	-	0.1	0.128	0.073	0.088	311	25900

NOTICE

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