BFCU 0,6/1 kV

Halogen Free, Fire Resistant, Flame Retardant, Low Smoke, (optional Mud Resistant)

Application

Fixed installation for power, control and lighting in both explosion and safe areas, emergency and critical systems where requirement for fire resistance exists.

Applicable standards

NEK 606:2004
IEC 60092-353 : Design
IEC 60331-21 : Fire Resistant
IEC 60332-3-22 Cat A : Flame Retardant
IEC 60754-1&2 : Halogen Free Properties
IEC 61034-1&2 : Low Smoke Properties

Construction	Code Letter	Construction Details
Conductor		Plain or tinned annealed stranded circular copper, IEC 60228, class 2 or class 5
Insulation	B	Mica Glass Tape + Hard grade Ethylene Propylene Rubber (HEPR)
Inner covering	F	Flame retardant and halogen-free compound
Armour	C	Galvanised steel wire braid
Outer sheath	U	Flame retardant, halogen-free thermoset compound, SHF2 (Optional SHF MUD)
Color		Black

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No. of Cores & Conductor Cross Section	Max.Conductor Resistance	Nominal Cable Weight	Nominal Cable Inner Diameter	Nominal Cable Diameter	Maximum Current Carrying Capacity*
No. x mm²	(Ω/km)	(kg/km)	(mm)	(mm)	(A)
1 x 1,5	12.2	120	5.6	8.7	23
1 x 2,5	7.56	150	6.0	9.2	32
1 x 4	4.70	180	6.6	9.8	40
1 x 6	3.11	200	7.1	10.3	52
1 x 10	1.84	250	8.0	11.4	72
1 x 16	1.16	350	9.0	12.4	96
1 x 25	0.734	520	10.8	14.8	127
1 x 35	0.529	630	11.9	16.0	157
1 x 50	0.391	820	13.2	17.3	196
1 x 70	0.270	1080	15.2	19.6	242
1 x 95	0.195	1350	16.9	21.4	293
1 x 120	0.154	1650	19.0	23.6	339
1 x 150	0.126	1990	20.9	25.7	389
1 x 185	0.100	2440	23.1	28.0	444
1 x 240	0.0762	3100	25.5	30.6	522
1 x 300	0.0607	3800	28.4	33.8	601
2 x 1,5	12.2	290	9.1	12.6	20
2 x 2,5	7.56	350	10.0	13.5	27
2 x 4	4.70	410	11.1	15.1	34
2 x 6	3.11	500	12.1	16.2	44
2 x 10	1.84	690	14.1	18.3	61
2 x 16	1.16	840	16.0	20.5	82
2 x 25	0.734	1220	19.6	24.3	108
2 x 35	0.529	1520	21.9	26.7	133
2 x 50	0.391	2010	24.3	29.4	167
3 x 1,5	12.2	330	9.7	13.2	16
3 x 2,5	7.56	400	10.7	14.7	22
3 x 4	4.70	490	11.9	15.9	28
3 x 6	3.11	590	13.0	17.1	36
3 x 10	1.84	780	15.0	19.4	50
3 x 16	1.16	1020	17.2	21.7	67
3 x 25	0.734	1790	21.0	25.8	89
3 x 35	0.529	1880	23.4	28.5	110
3 x 50	0.391	2510	26.1	31.3	137
3 x 70	0.270	3390	30.9	37.0	169
3 x 95	0.195	4400	34.6	41.0	205
3 x 120	0.154	5600	39.5	46.2	237
3 x 150	0.126	6750	43.6	50.6	273
3 x 185	0.100	8310	48.3	55.7	311
3 x 240	0.0762	10690	53.9	61.8	366
4 x 1,5	12.2	400	10.6	14.6	16
4 x 2,5	7.56	480	11.7	15.8	21
4 x 4	4.70	590	13.0	17.2	28
4 x 6	3.11	710	14.3	18.6	36
4 x 10	1.84	950	16.6	21.1	50
4 x 16	1.16	1290	19.0	23.6	67
4 x 25	0.734	1750	23.3	28.3	89
4 x 35	0.529	2390	26.0	31.2	110
4 x 50	0.391	3010	29.4	34.9	137
4 x 70	0.270	4310	34.4	40.7	169
4 x 95	0.195	5790	38.9	45.6	205
4 x 120	0.154	7150	43.9	51.0	237
4 x 150	0.126	5840	48.5	56.0	273
4 x 185	0.100	10650	54.2	62.1	311
5 x 1,5	12.2	450	11.6	15.7	13
5 x 2,5	7.56	550	12.9	17.0	18
5 x 4	4.70	650	14.3	18.6	23
5 x 6	3.11	810	15.7	20.1	29
5 x 10	1.84	1090	18.3	22.9	40
5 x 16	1.16	1490	21.0	25.8	54
5 x 25	0.734	1190	25.8	31.0	71
5 x 35	0.529	2780	29.2	34.7	88
5 x 50	0.391	4010	32.5	38.7	110
5 x 70	0.270	5290	38.1	44.7	135
5 x 95	0.195	7010	43.1	50.1	164
7 x 1,5	12.2	550	12.7	16.9	11
7 x 2,5	7.56	650	14.1	18.3	16
10 x 1,5	12.2	830	15.6	20.0	11
10 x 2,5	7.56	1010	17.3	21.8	16
12 x 1,5	12.2	890	16.9	21.3	11
12 x 2,5	7.56	1090	18.7	23.4	16
14 x 1,5	12.2	990	17.8	22.3	11
14 x 2,5	7.56	1050	19.7	24.5	16
19 x 1,5	12.2	1200	19.9	24.6	11
19 x 2,5	7.56	1410	22.1	27.0	16
24 x 1,5	12.2	1450	22.4	27.3	11
24 x 2,5	7.56	2010	24.9	30.1	16
27 x 1,5	12.2	1650	24.0	29.0	10
27 x 2,5	7.56	2150	26.7	32.0	13
37 x 1,5	12.2	2120	27.0	32.3	10
37 x 2,5	7.56	2830	30.6	36.6	13

* Conductor Temperature 90 °C, Ambient Temperature 45°C