



P17 BU 0.6/1 kV

<b>Applications :</b>	These cables are fire resistant, flame retardant, low smoke and halogen free, used for control, power and lighting systems.
<b>Standards :</b>	IEC 60092-353; IEC 60092-351; IEC 60092-359; IEC 60331-21; IEC 60332-1; IEC 60332-3-22; IEC 60754-1,2; IEC 61034-1,2; NEK 606:2004
<b>Conductors :</b>	Tinned annealed stranded copper to IEC 60228 class 2.
<b>Insulation :</b>	Mica tape + Halogen free EPR.
<b>Outer Sheath :</b>	Halogen free thermosetting compound, SHF2, coloured black.

Electrical Characteristics :

<b>Nominal Cross Section Area</b>	mm <sup>2</sup>	1.5	2.5	4	6	10	16	25	35
<b>Nominal Conductor Diameter</b>	mm	1.6	2.1	2.6	3.2	4	5.1	6.5	7.4
<b>Maximum DC Resistant@20°C</b>	Ω/km	12.2	7.56	4.7	3.11	1.84	1.16	0.734	0.529
<b>Continuous Current Rating@45°C1 Core</b>	A	23	30	40	52	72	96	127	157
<b>Continuous Current Rating@45°C2 Core</b>	A	20	26	34	44	61	82	108	133
<b>Continuous Current Rating@45°C3&amp;4 Core</b>	A	16	21	28	36	50	67	89	110
<b>Short Circuit Current 1s</b>	A	210	360	570	860	1430	2290	3580	5010
<b>Operating Voltage</b>	KV	0.6/1	0.6/1	0.6/1	0.6/1	0.6/1	0.6/1	0.6/1	0.6/1
<b>Nominal Cross Section Area</b>	mm <sup>2</sup>	50	70	95	120	150	185	240	300
<b>Nominal Conductor Diameter</b>	mm	8.7	10.3	12.2	13.8	15.1	17.0	19.6	21.9
<b>Maximum DC Resistant@20°C</b>	Ω/km	0.391	0.27	0.195	0.154	0.126	0.1	0.0762	0.0607
<b>Continuous Current Rating@45 °C 1 Core</b>	A	196	242	293	339	389	444	522	601

<b>Continuous Current Rating@45 °C 2 Core</b>	A	167	206	249	288	331	444	444	511
<b>Continuous Current Rating@45°C3&amp;4 Core</b>	A	137	169	205	237	272	311	365	421
<b>Short Circuit Current 1s</b>	A	7150	10020	13590	17170	21460	26470	34340	42930
<b>Operating Voltage</b>	KV	0.6/1	0.6/1	0.6/1	0.6/1	0.6/1	0.6/1	0.6/1	0.6/1

Note: For more than 4-cores, the current ratings may be calculated from the following formula ( $I_N = I_1 / \sqrt[3]{N}$ ),  $I_1$  = Current rating for 1-core, N = Number of cores.

Ambient Temperature Correction Factors :

<b>Ambient Temperature Correction Factors</b>	35	40	45	50	55	60	65	70	75	80
<b>Rating Factor</b>	1.1	1.05	1.0	0.94	0.88	0.82	0.74	0.67	0.58	0.47

Mechanical and Thermal Properties :

Bending Radius : 8×OD (during installation); 6×OD (fixed installed).

Temperature Range : -20°C ~ +90°C.

Dimensions and Weight :

Construction No. of cores×Cross section (mm <sup>2</sup> )	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
1×1.5	1.0	1.0	6.4	65
1×2.5	1.0	1.0	6.8	75
1×4	1.0	1.0	7.4	95
1×6	1.0	1.0	7.9	120
1×10	1.0	1.1	8.8	170
1×16	1.0	1.1	10.2	240
1×25	1.2	1.2	12.0	360
1×35	1.2	1.2	13.1	455
1×50	1.4	1.3	14.7	600
1×70	1.4	1.4	16.6	805
1×95	1.6	1.5	19.0	1095
1×120	1.6	1.5	20.6	1345
1×150	1.8	1.6	22.7	1635
1×185	2.0	1.7	25.2	2070
1×240	2.2	1.8	28.4	2655
1×300	2.4	1.9	31.1	3335

2×1.5	1.0	1.1	10.3	155
2×2.5	1.0	1.2	11.0	190
2×4	1.0	1.2	12.3	250
2×6	1.0	1.3	13.4	310
2×10	1.0	1.3	15.6	445
2×16	1.0	1.4	18.2	635
2×25	1.2	1.6	22.0	970
2×35	1.2	1.7	24.0	1215
2×50	1.4	1.8	27.4	1615
2×70	1.4	1.9	32.6	2335
2×95	1.6	2.1	37.6	3155
2×120	1.6	2.3	41.2	3875
2×150	1.8	2.4	45.4	4725
2×185	2.0	2.6	50.2	5845
2×240	2.2	2.8	56.8	7570
2×300	2.4	3.1	63.0	9395
3×1.5	1.0	1.2	10.9	180
3×2.5	1.0	1.2	11.9	230
3×4	1.0	1.2	13.1	295
3×6	1.0	1.3	14.2	375
3×10	1.0	1.4	16.5	550
3×16	1.0	1.5	19.3	795
3×25	1.2	1.6	23.5	1220
3×35	1.2	1.7	25.6	1545
3×50	1.4	1.9	29.5	2075
3×70	1.4	2.0	33.2	2775
3×95	1.6	2.2	38.5	3800
3×120	1.6	2.4	42.0	4685
3×150	1.8	2.5	46.3	5685
3×185	2.0	2.7	51.8	7215
3×240	2.2	3.0	58.0	9320
3×300	2.4	3.2	67.6	12280
4×1.5	1.0	1.2	12.1	225
4×2.5	1.0	1.2	13.0	275
4×4	1.0	1.3	14.5	365
4×6	1.0	1.4	15.8	490
4×10	1.0	1.4	18.4	695
4×16	1.0	1.5	21.5	1005

4×25	1.2	1.7	26.1	1550
4×35	1.2	1.8	28.5	1970
4×50	1.4	2.0	32.8	2645
4×70	1.4	2.2	36.9	3545
4×95	1.6	2.4	42.8	4850
4×120	1.6	2.6	46.5	5965
4×150	1.8	2.8	54.6	8020
4×185	2.0	3.0	60.3	9930
4×240	2.2	3.3	68.4	12920
4×300	2.4	3.5	75.5	15995
5×1.5	1.0	1.3	14.3	265
6×1.5	1.0	1.3	15.6	305
7×1.5	1.0	1.3	15.6	320
8×1.5	1.0	1.4	18.4	425
9×1.5	1.0	1.5	19.9	440
10×1.5	1.0	1.5	20.2	495
12×1.5	1.0	1.5	20.9	530
14×1.5	1.0	1.6	21.9	630
16×1.5	1.0	1.6	23.3	690
19×1.5	1.0	1.6	24.6	790
20×1.5	1.0	1.7	26.1	880
23×1.5	1.0	1.8	28.4	1030
24×1.5	1.0	1.8	29.2	1035
27×1.5	1.0	1.8	29.9	1080
30×1.5	1.0	1.9	31.1	1250
33×1.5	1.0	1.9	32.3	1335
37×1.5	1.0	2.0	33.8	1445
44×1.5	1.0	2.2	38.4	1765
5×2.5	1.0	1.3	14.5	340
6×2.5	1.0	1.4	17.0	395
7×2.5	1.0	1.4	17.0	420
8×2.5	1.0	1.5	20.0	535
9×2.5	1.0	1.5	21.5	560
10×2.5	1.0	1.5	21.8	620
12×2.5	1.0	1.6	22.7	680
14×2.5	1.0	1.6	23.9	810
16×2.5	1.0	1.7	25.4	895
19×2.5	1.0	1.7	26.8	1000

20×2.5	1.0	1.8	28.4	1140
23×2.5	1.0	1.9	30.9	1325
24×2.5	1.0	1.9	31.8	1340
27×2.5	1.0	1.9	32.5	1395
30×2.5	1.0	2.0	33.9	1620
33×2.5	1.0	2.0	35.2	1735
37×2.5	1.0	2.1	36.8	1865
44×2.5	1.0	2.3	41.8	2295