



Armour
Conductors
Conductor Screen
Insulation Screen
Insulation
Inner Sheath
Outer Sheath

P6 or P6/P13 BFOU 3.6/6kV

Applications :	These cables are flame retardant, low smoke, halogen free and mud resistant, used for fixed installation for medium voltage power.
Standards :	IEC 60092-354; IEC 60092-351; IEC 60092-359; IEC 60332-1; IEC 60332-3-22; IEC 60754-1,2; IEC 61034-1,2; NEK 606:2004
Conductors :	Circular tinned annealed stranded copper to IEC 60228 class 2.
Conductor Screen :	Semi conducting material.
Insulation :	Mica tape + Halogen free EPR.
Insulation Screen :	Semi conducting material and tinned copper wire braid.
Bedding :	Halogen free compound.
Armour :	Tinned copper wire braid.
Outer Sheath :	Halogen free thermosetting compound, SHF2 (for TYPE P6), or halogen free mud resistant thermosetting compound, SHF MUD (for TYPE P6/P13), coloured red.

Electrical Characteristics :

Nominal Cross Section Area	mm ²	25	35	50	70	95	120	150
Nominal Conductor Diameter	mm	6.5	7.4	8.7	10.3	12.2	13.8	15.1
Maximum DC Resistant@20°C	Ω/km	0.734	0.529	0.391	0.27	0.195	0.154	0.126
Continuous Current Rating@45°C1 Core	A	127	157	196	242	293	339	389
Continuous Current Rating@45°C3 Core	A	89	110	137	169	205	237	272
Short Circuit Current 1s	A	3580	5010	7150	10020	13590	17170	21460
Operating Voltage	KV	3.6/6	3.6/6	3.6/6	3.6/6	3.6/6	3.6/6	3.6/6
Nominal Cross Section Area	mm ²	185	240	300	400	500	630	
Nominal Conductor Diameter	mm	17.0	19.6	21.9	24.5	27.5	32.3	
Maximum DC Resistant@20°C	Ω/km	0.1	0.0762	0.0607	0.0475	0.0369	0.0286	

Continuous Current Rating@45°C1 Core	A	444	522	601	690	780	890
Continuous Current Rating@45°C3 Core	A	311	365	421	483	546	623
Short Circuit Current 1s	A	26470	34340	42930	57230	71540	90140
Operating Voltage	KV	3.6/6	3.6/6	3.6/6	8.7/15	8.7/15	8.7/15

Ambient Temperature Correction Factors :

Ambient Temperature Correction Factors	35	40	45	50	55	60	65	70	75	80
Rating Factor	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 :15×OD (during installation); 9×OD (fixed installed).

Temperature Range : -20°C ~ +90°C.

Dimensions and Weight :

Construction No. of cores×Cross section (mm²)	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm		Nominal Overall Diameter mm	Nominal Weight kg/km
		Inner	Outer		
1×16	2.5	1.5	1.2	24.8	950
1×25	2.5	1.6	1.2	26.3	1110
1×35	2.5	1.6	1.2	27.6	1260
1×50	2.5	1.7	1.3	29.1	1460
1×70	2.5	1.7	1.3	30.9	1740
1×95	2.5	1.8	1.4	33.2	2110
1×120	2.5	1.9	1.4	34.9	2430
1×150	2.5	1.9	1.4	36.9	2890
1×185	2.5	2.0	1.5	39.1	3370
1×240	2.6	2.1	1.6	42.2	4100
1×300	2.8	2.2	1.6	44.7	4810
1×400	3.0	2.3	1.7	48.1	5810
1×500	3.2	2.5	1.8	52.1	7030
1×630	3.2	2.6	1.9	56.5	8630
3×16	2.5	2.3	1.7	48.2	3550
3×25	2.5	2.5	1.8	51.5	4180
3×35	2.5	2.6	1.9	54.7	4820
3×50	2.5	2.7	1.9	57.4	5490
3×70	2.5	2.8	2.0	61.6	6590

3×95	2.5	3.0	2.1	66.2	7920
3×120	2.5	3.1	2.2	70.1	9150
3×150	2.5	3.3	2.3	74.0	10460
3×185	2.5	3.4	2.4	78.6	12010
3×240	2.6	3.7	2.6	86.3	14690
3×300	2.8	3.9	2.8	92.3	17130