

P3 or P3/P10 RFOU/TFOU 6/10KV



- Armour
- Conductors
- Conductor Screen
- Insulation Screen
- Insulation
- Inner Sheath
- Outer Sheath

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 :	Halogen-free EPR. XLPE can be offered as an option (for TFOU cable).
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 P3), or halogen free mud resistant thermosetting compound, SHF MUD (for TYPE P3/P10),coloured red.

Electrical Characteristics :

Nominal Cross Section Area	mm ²	16	25	35	50	70	95	120
Nominal Conductor Diameter	mm	5.2	6.5	7.4	8.7	10.3	12.2	13.8
Maximum DC Resistant@20°C	Ω/km	1.16	0.734	0.529	0.391	0.27	0.195	0.154
Continuous Current Rating@45°C1 Core	A	96	127	157	196	242	293	339
Continuous Current Rating@45°C3 Core	A	67	89	110	137	169	205	237
Short Circuit Current 1s	A	2290	3580	5010	7150	10020	13590	17170
Operating Voltage	KV	6/10	6/10	6/10	6/10	6/10	6/10	6/10
Nominal Cross Section Area	mm ²	150	185	240	300	400	500	630
Nominal Conductor Diameter	mm	15.1	17.0	19.6	21.9	24.5	27.5	32.3
Maximum DC Resistant@20°C	Ω/km	0.126	0.1	0.0762	0.0607	0.0475	0.0369	0.0286

Continuous Current Rating@45°C1 Core	A	389	444	522	601	690	780	890
Continuous Current Rating@45°C3 Core	A	272	311	365	421	483	546	623
Short Circuit Current 1s	A	21460	26470	34340	42930	57230	71540	90140
Operating Voltage	KV	6/10	6/10	6/10	6/10	6/10	6/10	6/10

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	3.4	1.5	1.1	24.0	900
1×25	3.4	1.5	1.2	26.0	1140
1×35	3.4	1.6	1.2	26.9	1265
1×50	3.4	1.6	1.2	28.3	1460
1×70	3.4	1.7	1.3	30.0	1710
1×95	3.4	1.8	1.3	32.0	2060
1×120	3.4	1.8	1.4	33.8	2380
1×150	3.4	1.9	1.4	35.3	2700
1×185	3.4	2.0	1.5	37.8	3225
1×240	3.4	2.1	1.6	41.0	3990
1×300	3.4	2.2	1.6	43.7	4760
1×400	3.4	2.3	1.7	45.5	5900
1×500	3.4	2.4	1.8	49.5	7350
1×630	3.4	2.6	1.9	54.5	8750
3×16	3.4	2.3	1.7	46.0	3300
3×25	3.4	2.4	1.8	50.1	3905
3×35	3.4	2.5	1.8	52.2	4360
3×50	3.4	2.6	1.9	55.1	5185
3×70	3.4	2.7	2.0	58.9	6125

3×95	3.4	2.9	2.1	63.5	7500
3×120	3.4	3.0	2.2	67.6	8775
3×150	3.4	3.2	2.3	71.7	10235
3×185	3.4	3.4	2.4	74.0	11300
3×240	3.4	3.6	2.6	79.5	13300
3×300	3.4	3.8	2.7	85.0	16300