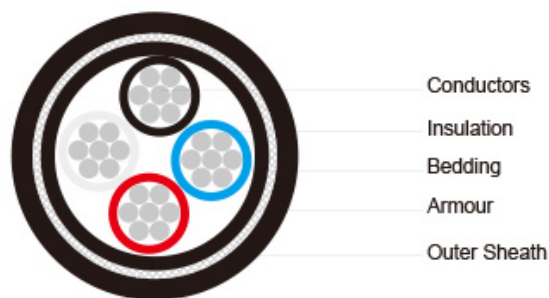


P1 or P1/P8 RFOU/TFOU 0.6/1KV



Applications :	Marine cables are flame retardant, low smoke, halogen free and mud resistant, used for control, power and lighting systems.
Standards :	IEC 60092-353; 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 :	Tinned annealed stranded copper to IEC 60228 class 2.
Insulation:	Halogen-free EPR. XLPE can be offered as an option (for TFOU cable).
Bedding :	Halogen free compound.
Armour :	Tinned copper wire braid.
Outer Sheath :	Halogen free thermosetting compound, SHF2 (for TYPE P1). Halogen free, mud resistant thermosetting compound, SHF MUD (for TYPE P1/P8), coloured black.

Electrical Characteristics :

Nominal Cross Section Area	mm ²	1.5	2.5	4	6	10	16	25	35	50	70
Nominal Diameter	mm	1.6	2.1	2.6	3.2	4.0	5.1	6.5	7.4	8.7	10.3
Maximum DC Resistant@20°C	Ω/km	12.2	7.56	4.7	3.11	1.84	1.16	0.734	0.529	0.391	0.27
Continuous Current Rating@45°C1 Core	A	23	30	40	52	72	96	127	157	196	242
Continuous Current Rating@45°C2 Core	A	20	26	34	44	61	82	108	133	167	206
Continuous Current Rating@45°C 3&4 Core	A	16	21	28	36	50	67	89	110	137	169
Short Circuit Current 1s	A	210	360	570	860	1430	2290	3580	5010	7150	10020
Operating Voltage	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	0.6/1	0.6/1
Nominal Cross Section Area	mm ²	95	120	150	185	240	300	400	500	630	

Nominal Diameter	Conductor	mm	12.2	13.8	15.1	17.0	19.6	21.9	24.6	27.6	32.5
Maximum DC Resistant@20°C		Ω/km	0.195	0.154	0.126	0.1	0.0762	0.0607	0.0475	0.0369	0.0286
Continuous Current Rating@45°C1 Core		A	293	339	389	444	522	601	690	780	890
Continuous Current Rating@45°C2 Core		A	249	288	331	444	444	511	587	663	757
Continuous Current Rating@45°C3&4 Core		A	205	237	272	311	365	421	483	546	623
Short Circuit Current 1s		A	13590	17170	21460	26470	34340	42930	57230	71540	90140
Operating Voltage		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	0.6/1

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

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

Temperature Range : -20°C ~ +90°C.

Dimensions and Weight :

Construction No. of cores×Cross section (mm ²)	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm		Nominal Overall Diameter mm	Nominal Weight kg/km
		Inner	Outer		
1×1.5	1.0	1.1	1.1	8.9	135
1×2.5	1.0	1.1	1.1	9.3	150
1×4	1.0	1.1	1.1	9.9	180
1×6	1.0	1.1	1.1	10.4	205
1×10	1.0	1.1	1.2	12.2	295
1×16	1.0	1.1	1.2	13.5	385
1×25	1.2	1.1	1.2	15.4	525

1×35	1.2	1.1	1.3	16.9	685
1×50	1.4	1.1	1.4	18.7	870
1×70	1.4	1.1	1.4	20.4	1105
1×95	1.6	1.1	1.5	22.8	1435
1×120	1.6	1.2	1.6	24.9	1745
1×150	1.8	1.2	1.6	26.8	2055
1×185	2.0	1.2	1.7	29.3	2560
1×240	2.2	1.2	1.8	32.5	3190
1×300	2.4	1.2	1.9	35.2	3935
1×400	2.4	1.4	2.1	40.5	5060
1×500	2.4	1.4	2.2	44.0	6180
1×630	2.4	1.4	2.3	48.0	7620
2×1.5	1.0	1.1	1.2	13.6	295
2×2.5	1.0	1.1	1.2	14.4	335
2×4	1.0	1.1	1.3	16.1	445
2×6	1.0	1.1	1.3	17.1	520
2×10	1.0	1.1	1.4	19.3	680
2×16	1.0	1.1	1.5	21.7	955
2×25	1.2	1.2	1.6	25.9	1335
2×35	1.2	1.2	1.7	27.9	1595
2×50	1.4	1.2	1.9	31.9	2250
2×70	1.4	1.2	2.1	35.8	2795
2×95	1.6	1.2	2.3	41.2	3780
2×120	1.6	1.4	2.4	44.8	4560
2×150	1.8	1.4	2.6	49.2	5500
2×185	2.0	1.4	2.7	53.8	6675
2×240	2.2	1.6	3.0	61.0	8605
2×300	2.4	1.6	3.2	67.0	10510
3×1.5	1.0	1.1	1.2	14.2	320
3×2.5	1.0	1.1	1.3	15.6	415
3×4	1.0	1.1	1.3	16.8	500
3×6	1.0	1.1	1.4	18.1	605
3×10	1.0	1.1	1.4	20.3	795
3×16	1.0	1.1	1.5	22.8	1125
3×25	1.2	1.2	1.6	27.5	1620
3×35	1.2	1.2	1.7	29.6	1955
3×50	1.4	1.2	1.9	33.9	2730
3×70	1.4	1.4	2.0	38.4	3655

3×95	1.6	1.4	2.2	43.8	4885
3×120	1.6	1.4	2.3	47.6	6000
3×150	1.8	1.6	2.5	52.4	7300
3×185	2.0	1.6	2.7	58.6	8960
3×240	2.2	1.8	2.9	66.1	11610
3×300	2.2	1.8	3.4	71.9	13490
4×1.5	1.0	1.1	1.3	15.7	350
4×2.5	1.0	1.1	1.3	16.6	425
4×4	1.0	1.1	1.4	18.1	590
4×6	1.0	1.1	1.4	19.5	725
4×10	1.0	1.1	1.5	22.1	955
4×16	1.0	1.2	1.6	25.2	1375
4×25	1.2	1.2	1.7	30.0	1965
4×35	1.2	1.2	1.8	32.4	2410
4×50	1.4	1.4	2.0	37.3	3365
4×70	1.4	1.4	2.2	42.1	4580
4×95	1.6	1.4	2.4	48.2	6020
4×120	1.6	1.6	2.5	52.7	7440
4×150	1.8	1.6	2.9	58.3	8800
4×185	2.0	1.6	3.1	64.0	10760
4×240	2.2	1.8	3.4	72.4	13890
4×300	2.4	1.8	3.7	79.8	17405
5×1.5	1.0	1.1	1.3	16.7	420
6×1.5	1.0	1.1	1.3	17.8	495
7×1.5	1.0	1.1	1.3	17.8	540
8×1.5	1.0	1.1	1.5	20.3	645
9×1.5	1.0	1.1	1.5	21.5	675
10×1.5	1.0	1.1	1.5	21.8	705
12×1.5	1.0	1.1	1.5	22.5	805
14×1.5	1.0	1.1	1.6	23.6	860
16×1.5	1.0	1.1	1.7	24.9	940
19×1.5	1.0	1.1	1.7	26.0	1100
20×1.5	1.0	1.1	1.7	27.2	1130
23×1.5	1.0	1.1	1.8	29.3	1285
24×1.5	1.0	1.1	1.8	30.0	1305
27×1.5	1.0	1.1	1.9	30.8	1460
30×1.5	1.0	1.1	1.9	31.8	1520
33×1.5	1.0	1.2	2.0	33.5	1670

37×1.5	1.0	1.2	2.0	34.6	1840
44×1.5	1.0	1.2	2.2	39.2	2210
5×2.5	1.0	1.1	1.4	18.0	555
6×2.5	1.0	1.1	1.4	19.2	590
7×2.5	1.0	1.1	1.4	19.2	655
8×2.5	1.0	1.1	1.5	21.8	775
9×2.5	1.0	1.1	1.6	23.3	785
10×2.5	1.0	1.1	1.6	23.6	865
12×2.5	1.0	1.1	1.6	24.5	955
14×2.5	1.0	1.1	1.7	25.5	1070
16×2.5	1.0	1.1	1.7	26.7	1155
19×2.5	1.0	1.1	1.8	28.2	1360
20×2.5	1.0	1.1	1.8	29.5	1410
23×2.5	1.0	1.1	1.9	31.8	1610
24×2.5	1.0	1.2	2.0	33.2	1690
27×2.5	1.0	1.2	2.0	33.9	1815
30×2.5	1.0	1.2	2.0	34.9	1960
33×2.5	1.0	1.2	2.1	36.7	2190
37×2.5	1.0	1.2	2.1	38.0	2370
44×2.5	1.0	1.2	2.3	42.6	2795

Note: For XLPE insulated cable, a thinner insulation thickness is applied.