

# Offshore & Marine Cables

## Factories and Registered Offices

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(Updated as at March 2008)



## A History of Quality Products and Excellent Service Delivery Commitment

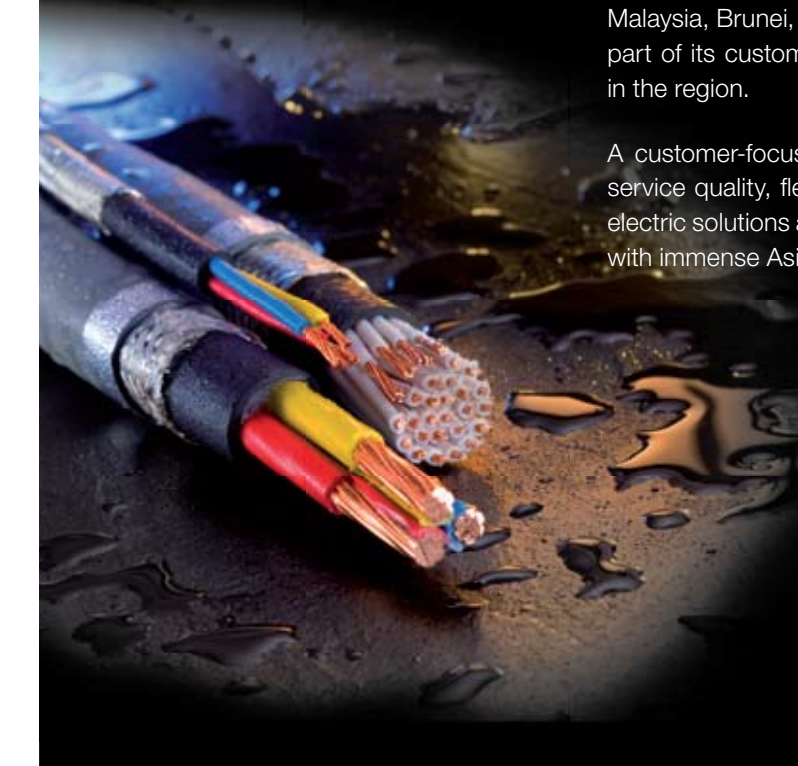
Tai Sin Electric Cables Manufacturer Pte Ltd was incorporated in 1980, and has since expanded and diversified steadily to become the Tai Sin Group of Companies. First listed on SESDAQ, the second board of the Singapore Exchange (SGX) in 1998, the Group showed exceptional growth and excellence over the years, thus enabling its promotion to the Main Board of the SGX in 2005.

Today, the Group has diversified its scope as a cable manufacturer. Its acquisitions of established distribution businesses have enabled it to combine this strong distribution heritage with its own cable and wire manufacturing capabilities, making it a regional electric solutions specialist.

It now provides manufacturing, distribution and technical services to support its customers in the industrial, infrastructure, commercial and residential sectors.

Over time, the Group has built up strong business competencies. To date, it is one of only a few enterprises that produces cables, switchboards and lamps, and operates a successful regional network distributing electrical and control products, devices and accessories. With subsidiaries and offices located in Singapore, Malaysia, Brunei, Vietnam, New Zealand and the Middle East, the Group counts as part of its customer portfolio, many prominent building and construction projects in the region.

A customer-focused Group, Tai Sin prides itself on delivering high standards in service quality, flexibility and responsiveness. Coupled with its impressive suite of electric solutions and services, it is now a recognised and respected business entity with immense Asian know-how.

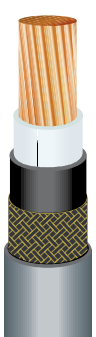


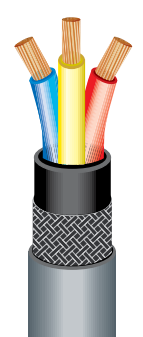
Nominal Conductor Area (mm <sup>2</sup> )	No. and Diameter of Wire (no./mm)	Radial Thickness of Insulation (mm)	Approx. Overall Diameter (mm)	Approx. Weight (kg/km)
1.5	7/0.53	0.7	8.4	119
2.5	7/0.67	0.7	8.8	135
4	7/0.85	0.7	9.6	164
6	7/1.04	0.7	10.1	193
10	7/1.35	0.7	11.1	246
16	7/1.70	0.7	12.0	320
25	7/2.14	0.9	14.2	471
35	7/2.52	0.9	15.4	591
50	19/1.78	1.0	17.4	750
70	19/2.14	1.1	19.2	991
95	19/2.52	1.1	20.2	1260
120	37/2.03	1.2	23.0	1557
150	37/2.25	1.4	25.0	1870
185	37/2.52	1.6	27.4	2291
240	61/2.25	1.7	30.3	2909
300	61/2.52	1.8	33.0	3569


XSBP, 0.6 / 1.0 kV					XSBP, 0.6 / 1.0 kV				
Nominal Conductor Area (mm <sup>2</sup> )	No. and Diameter of Wire (no./mm)	Radial Thickness of Insulation (mm)	Approx. Overall Diameter (mm)	Approx. Weight (kg/km)	Nominal Conductor Area (mm <sup>2</sup> )	No. and Diameter of Wire (no./mm)	Radial Thickness of Insulation (mm)	Approx. Overall Diameter (mm)	Approx. Weight (kg/km)
2 x 1.5	7/0.53	0.7	11.3	193	4 x 1.5	7/0.53	0.7	12.8	268
2 x 2.5	7/0.67	0.7	12.2	233	4 x 2.5	7/0.67	0.7	13.8	330
2 x 4	7/0.85	0.7	13.9	320	4 x 4	7/0.85	0.7	15.8	463
2 x 6	7/1.04	0.7	15.0	389	4 x 6	7/1.04	0.7	17.4	589
2 x 10	7/1.35	0.7	17.1	529	4 x 10	7/1.35	0.7	19.8	826
2 x 16	7/1.70	0.7	19.6	726	4 x 16	7/1.70	0.7	22.1	1135
2 x 25	7/2.14	0.9	23.4	1059	4 x 25	7/2.14	0.9	26.4	1683
2 x 35	7/2.52	0.9	25.9	1346	4 x 35 (s)	7/2.52	0.9	29.8	2197
2 x 50 (s)	19/1.78	1.0	21.2	1436	4 x 50 (s)	19/1.78	1.0	33.2	2829
2 x 70 (s)	19/2.14	1.1	23.9	1677	4 x 70 (s)	19/2.14	1.1	39.3	4044
2 x 95 (s)	19/2.52	1.1	27.3	2288	4 x 95 (s)	19/2.52	1.1	42.3	5146
2 x 120 (s)	37/2.03	1.2	29.9	2818	4 x 120 (s)	37/2.03	1.2	46.1	6310
2 x 150 (s)	37/2.25	1.4	32.8	3410	4 x 150 (s)	37/2.25	1.4	47.7	7318
2 x 185 (s)	37/2.52	1.6	36.0	4198	4 x 185 (s)	37/2.52	1.6	55.4	9416
2 x 240 (s)	61/2.25	1.7	40.0	5371	4 x 240 (s)	61/2.25	1.7	62.7	12213
2 x 300 (s)	61/2.52	1.8	43.7	6606	4 x 300 (s)	61/2.52	1.8	69.7	15197
3 x 1.5	7/0.53	0.7	11.8	218	5 x 1.5	7/0.53	0.7	13.8	327
3 x 2.5	7/0.67	0.7	12.9	269	6 x 1.5	7/0.53	0.7	15.3	414
3 x 4	7/0.85	0.7	14.0	338	7 x 1.5	7/0.53	0.7	15.3	434
3 x 6	7/1.04	0.7	16.0	465	5 x 2.5	7/0.67	0.7	15.5	438
3 x 10	7/1.35	0.7	18.2	645	6 x 2.5	7/0.67	0.7	16.7	519
3 x 16	7/1.70	0.7	20.1	868	7 x 2.5	7/0.67	0.7	16.7	549
3 x 25	7/2.14	0.9	24.1	1296	5 x 4	7/0.85	0.7	17.1	567
3 x 35	7/2.52	0.9	26.6	1657	6 x 4	7/0.85	0.7	18.4	666
3 x 50 (s)	19/1.78	1.0	28.0	1930	7 x 4	7/0.85	0.7	18.4	711
3 x 70 (s)	19/2.14	1.1	31.7	2637					
3 x 95 (s)	19/2.52	1.1	35.7	3560					
3 x 120 (s)	37/2.03	1.2	39.4	4416					
3 x 150 (s)	37/2.25	1.4	43.5	5354					
3 x 185 (s)	37/2.52	1.6	47.9	6622					
3 x 240 (s)	61/2.25	1.7	53.1	8476					
3 x 300 (s)	61/2.52	1.8	58.1	10432					

Note : (s) means shaped conductor as standard

XSBP, 0.6 / 1.0 kV					XSBP, 0.6 / 1.0 kV				
Nominal Conductor Area (mm <sup>2</sup> )	No. and Diameter of Wire (no./mm)	Radial Thickness of Insulation (mm)	Approx. Overall Diameter (mm)	Approx. Weight (kg/km)	Nominal Conductor Area (mm <sup>2</sup> )	No. and Diameter of Wire (no./mm)	Radial Thickness of Insulation (mm)	Approx. Overall Diameter (mm)	Approx. Weight (kg/km)
8 x 1.5	7/0.53	0.7	16.9	521	8 x 2.5	7/0.67	0.7	18.5	661
9 x 1.5	7/0.53	0.7	18.1	600	9 x 2.5	7/0.67	0.7	19.7	751
10 x 1.5	7/0.53	0.7	18.8	649	10 x 2.5	7/0.67	0.7	20.4	816
11 x 1.5	7/0.53	0.7	18.8	670	11 x 2.5	7/0.67	0.7	20.4	846
12 x 1.5	7/0.53	0.7	19.5	724	12 x 2.5	7/0.67	0.7	21.2	916
13 x 1.5	7/0.53	0.7	20.2	785	13 x 2.5	7/0.67	0.7	22.5	1016
14 x 1.5	7/0.53	0.7	20.2	805	14 x 2.5	7/0.67	0.7	22.5	1046
15 x 1.5	7/0.53	0.7	21.1	873	15 x 2.5	7/0.67	0.7	23.5	1135
16 x 1.5	7/0.53	0.7	21.1	893	16 x 2.5	7/0.67	0.7	23.5	1165
17 x 1.5	7/0.53	0.7	22.5	988	17 x 2.5	7/0.67	0.7	24.6	1259
18 x 1.5	7/0.53	0.7	22.5	1009	18 x 2.5	7/0.67	0.7	24.6	1289
19 x 1.5	7/0.53	0.7	22.5	1029	19 x 2.5	7/0.67	0.7	24.6	1319
20 x 1.5	7/0.53	0.7	23.5	1108	20 x 2.5	7/0.67	0.7	25.9	1435
21 x 1.5	7/0.53	0.7	23.5	1129	21 x 2.5	7/0.67	0.7	25.9	1465
22 x 1.5	7/0.53	0.7	24.5	1214	22 x 2.5	7/0.67	0.7	27.3	1587
23 x 1.5	7/0.53	0.7	24.5	1234	23 x 2.5	7/0.67	0.7	27.3	1617
24 x 1.5	7/0.53	0.7	25.7	1332	24 x 2.5	7/0.67	0.7	28.7	1742
25 x 1.5	7/0.53	0.7	25.7	1353	25 x 2.5	7/0.67	0.7	28.7	1772
26 x 1.5	7/0.53	0.7	25.7	1374	26 x 2.5	7/0.67	0.7	28.7	1802
27 x 1.5	7/0.53	0.7	26.2	1423	27 x 2.5	7/0.67	0.7	29.2	1870
28 x 1.5	7/0.53	0.7	27.2	1510	28 x 2.5	7/0.67	0.7	30.1	1967
29 x 1.5	7/0.53	0.7	27.2	1531	29 x 2.5	7/0.67	0.7	30.1	1997
30 x 1.5	7/0.53	0.7	27.2	1552	30 x 2.5	7/0.67	0.7	30.1	2027
31 x 1.5	7/0.53	0.7	28.3	1649	31 x 2.5	7/0.67	0.7	31.5	2166
32 x 1.5	7/0.53	0.7	28.3	1670	32 x 2.5	7/0.67	0.7	31.5	2196
33 x 1.5	7/0.53	0.7	28.3	1691	33 x 2.5	7/0.67	0.7	31.5	2226
34 x 1.5	7/0.53	0.7	29.2	1777	34 x 2.5	7/0.67	0.7	32.6	2338
35 x 1.5	7/0.53	0.7	29.2	1797	35 x 2.5	7/0.67	0.7	32.6	2368
36 x 1.5	7/0.53	0.7	29.2	1818	36 x 2.5	7/0.67	0.7	32.6	2398
37 x 1.5	7/0.53	0.7	29.2	1839	37 x 2.5	7/0.67	0.7	32.6	2428

Construction	Technical Data	
Conductor : Plain Annealed Copper Insulation : Cross-link Polyethylene (XLPE) Compound Inner-covering : Flame Retardant ST2 PVC Compound Braids wire : Plain Copper Wire Outer-sheath : Flame Retardant ST2 PVC Compound Outer-sheath Colour : Grey	Reference Standard : IEC60092-353 IEC60332-3-22 Voltage U <sub>0</sub> / U : 0.6 / 1.0kV Conductor Stranding : Class 2 Operating Temperature : Maximum 85°C Bending Radius : Minimum 6D for circular conductor D: Overall diameter of cable	

Construction	Technical Data	
Conductor : Plain Annealed Copper Insulation : Cross-link Polyethylene (XLPE) Compound Inner-sheath : Flame Retardant ST2 PVC Compound Inner core Colour : 2 cores : Red, Black 3 cores : Red, Yellow, Blue 4 cores : Red, Yellow, Blue, Black 5, 6, 7 cores : White with Black numbering Braids wire : Galvanised Steel Wire Outer-sheath : Flame Retardant ST2 PVC Compound Outer-sheath Colour : Grey	Reference Standard : IEC60092-353 IEC60332-3-22 Voltage U <sub>0</sub> / U : 0.6 / 1.0kV Conductor Stranding : Class 2 Operating Temperature : Maximum 85°C Bending Radius : Minimum 6D for circular conductor Minimum 8D for shaped conductor D: Overall diameter of cable	

Construction	Technical Data	
Conductor : Plain Annealed Copper Insulation : Cross-link Polyethylene (XLPE) Compound Inner-sheath : Flame Retardant ST2 PVC Compound Inner core colour : 8, 9, ... , 37 Cores: White with Black numbering Braids wire : Galvanised Steel Wire Outer-sheath : Flame Retardant ST2 PVC Compound Outer-sheath Colour : Grey	Reference Standard : IEC60092-353 IEC60332-3-22 Voltage U <sub>0</sub> / U : 0.6 / 1.0kV Conductor Stranding : Class 2 stranded circular Operating Temperature : Maximum 85°C Bending Radius : Minimum 6D for circular conductor D: Overall diameter of cable	