



台一國際股份有限公司

TAI-I ELECTRIC WIRE & CABLE CO., LTD

電力電纜型錄 Electric Wire & Cable

www.tai-i-int.com.tw



台一國際股份有限公司

Tai-I Electric Wire & Cable Co., Ltd.

105 台灣台北市松山區民生東路三段129號10樓
10F., No. 129, Sec. 3, Minsheng E. Rd., Songshan District,
Taipei City 105, Taiwan (R.O.C.)
TEL : 886-2-2718-7333
FAX : 886-2-2718-0969 · 886-2-2719-1311
Website : www.tai-i-int.com.tw

電力電纜事業

Electric Wire & Cable Business

328 台灣桃園縣觀音鄉富源村3鄰49號
No. 49, Vicinity 3, Fuyuan Village, Guanyin Shiang, Taoyuan
County 328, Taiwan (R.O.C.)
TEL : 886-3-490-7711
FAX : 886-3-490-6622 · 886-3-490-6611

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電力電纜產品

Electric Wire & Cable

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產品名稱 Products	絕緣材料 Insulation material	被覆材料 Jacket Material	用途 Application	CNS	TPC	IEC	ICEA	ASTM	其他 Others
345kV(500kV)電纜 345kV(500kV) Cable	XLPE	PVC或PE PVC or PE	電力輸送Electric Power Transmission (特高耐壓等級Up to 345kV/500kV)		TSCD-168-04	62067			GB/T 22078.1~3-2008
161kV(220kV)電纜 161kV(220kV)Cable	XLPE	PVC或PE PVC or PE	電力輸送Electric Power Transmission (特高耐壓等級Up to 161kV/220kV)		A046	62067			GB/T 18890.1~3-2002
69kV(110kV)電纜 Cable	XLPE	PVC或PE PVC or PE	電力輸送Electric Power Transmission (超高耐壓等級Up to 69kV/110kV)		A007	60840			GB/T 11017.1~3-2002
XLPE電纜 XLPE Cable	XLPE	PVC或PE PVC or PE	電力輸送Electric Power Transmission (高耐壓等級For High Voltage Transmission)	2655	A043	60502	S-93-639		
耐燃電纜 Fire resistant Cable	PE或XLPE PE or XLPE	低煙無毒材料 LSFH	消防、緊急照明 警報、廣播設備Emergency power systems and alarms under fire	11174		331			BS6387
耐熱電纜 Heat resistant Cable	XLPE	PVC或低煙無毒 材料(LSFH)	消防、緊急照明 警報、廣播設備Emergency power systems and alarms under fire	11175					
太陽能電纜 PV Cable	XLPE	XLPE	太陽能電池模組電力輸出 Solar cells module power output						UL4703
鍍錫銅帶 PV Ribbon			太陽能電池及匯流串接 Solar cells interconnect and bus bar application						
PVC電纜 PVC Cable	PVC	PVC	電力輸送Electric Power Transmission (一般用戶For End User)	3301	A003 A004 A006				
PVC電線 PVC Wire	PVC	PVC	電力輸送Electric Power Transmission (一般用戶For End User)	679					
架空鋼心鋁線 Overhead ACSR Cable	無 None	無 None	電力輸送Electric Power Transmission (高耐壓等級Overhead transmission)		A011			B232	
架空全鋁線 Overhead All Aluminum Cable	無 None	無 None	電力輸送Electric Power Transmission (高耐壓等級Overhead transmission)		A012			B231	
光纖纜線 Optical Fiber Cable	-----	PE或低煙無毒材 料(LSFH)	訊號傳輸 Signal transmission						



◎ 345 kV交連聚乙烯電力電纜 / 345 kV XLPE Power Cable

額定電壓 Rated Voltage	標稱截面 Nominal Cross-section area	導體外徑 Conduct diameter	構成 Construction	絕緣層 Insulation		遮蔽銅線 Shielding	被覆厚度 Thickness of outer sheath	電纜外徑 Overall Diameter	電纜重量 Weight	導體直流電阻 Maximum conductor resistance 20℃
				厚度 Thickness	外徑 Diameter					
(kV)	mm ²	mm		mm	mm		mm	mm	Kg/km	Ω/km
345	400	24.1	壓縮圓形 Compacted circular	27	80.1	80條線徑 2.3mm鍍 錫銅線 80/2.3mm Tinning copper wire shielding	5.5	104.7	15000	0.0471
	600	29.5		27	85.5		5.5	110.1	17400	0.0308
	800	34.0	四或五 分割壓縮 Stranded shaped conductor	27	92.0		5.5	116.6	19900	0.0231
	1000	38.0		27	96.0		6	121.6	22300	0.0187
	1200	41.7		27	99.7		6	125.3	24500	0.0156
	1600	48.2		27	106.2		6	131.8	29000	0.0117
	2000	53.8		27	111.8		6	137.4	33500	0.0093
	2500	61.2		27	120.2		6	145.8	39000	0.0075

◎ 161 kV交連聚乙烯電力電纜 / 161 kV XLPE Power Cable

截面積 Nominal cross-section area conductor	構成 Construction	導體外徑 Conduct diameter	絕緣層 Insulation		遮蔽銅線 構成 Shielding	被覆層厚 PVC outer sheath thickness	完成外徑 Overall diameter	導體電阻 Maximum resistance of conductor	總重 Weight
			厚度 Thickness	外徑 Diameter					
mm ²		mm	mm	mm		mm	mm	Ω-km	kg/km
200	壓縮圓形 Compacted circular	17.0	23	65.0	80條線徑 2.0mm鍍 錫銅線 80/2.0mm Tinning copper wire shielding	4.5	84.0	0.0933	9800
250		19.0	23	67.0		4.5	86.0	0.0754	10600
325		21.7	23	69.7		4.5	88.7	0.058	11500
400		24.1	23	72.1		4.5	91.1	0.0471	12450
500		26.9	23	74.9		4.5	93.9	0.0376	13500
600		29.5	23	77.5		5	97.5	0.0308	15100
800	四或五 分割壓縮 Stranded shaped conductor	34.0	23	84.0		5	104.0	0.0231	17550
1000		38.0	23	88.0		5.5	109.0	0.0187	19900
1200		41.7	23	91.7		5.5	111.7	0.0156	22050
1400		45.0	23	95.0		5.5	116.0	0.0133	24250
1600		48.2	23	98.2		5.5	119.2	0.0117	26250
1800		51.0	23	101.0		6	123.0	0.0104	28700
2000		53.8	23	103.8		6	125.8	0.00933	30800

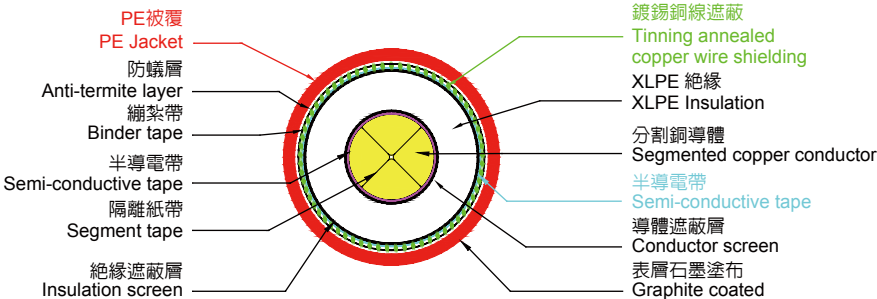
◎ 69 kV交連聚乙烯電力電纜 / 69 kV XLPE Power Cable

截面積 Nominal cross-section area conductor	構成 Construction	外徑 Conduct diameter	絕緣層 Insulation		遮蔽銅線 構成 Shielding	被覆層厚 PVC outer sheath thickness	完成外徑 Overall diameter	導體電阻 Maximum resistance of conductor	總重 Weight
			厚度 Thickness mm	外徑 Diameter mm					
mm ²		mm				mm	mm	Ω-km	kg/km
100	壓縮圓形 Compacted circular	12.0	16.51	48.6	65條線徑 1.45mm 鍍錫銅線 65/1.45mm Tinning copper wire shielding	3.5	63.0	0.187	5060
150		14.7	16.51	51.3		3.5	65.5	0.124	5800
200		17.0	16.51	53.6		3.5	68.0	0.0933	6350
250		19.0	16.51	56.3		3.5	70.5	0.0754	7000
325		21.7	16.51	59.0		3.5	73.5	0.058	7900
400		24.1	16.51	61.4		3.5	76.0	0.0471	8800
500		26.9	16.51	64.2		4.0	79.5	0.0376	10000
600		29.5	16.51	66.8		4.0	82.5	0.0308	11200
800	四或五 分割壓縮 Stranded shaped conductor	34.0	16.51	72.2		4.5	88.5	0.0231	13500
1000		38.0	16.51	76.2		4.5	92.0	0.0187	15500
1200		41.7	16.51	79.9		4.5	96.5	0.0156	17600
1400		45.0	16.51	83.2		4.5	99.5	0.0133	19700
1600		48.2	16.51	86.4		4.5	103.0	0.0117	21700

◎ 69 kV交連聚乙烯防蟻電纜 / 69 kV XLPE Anti-termite Power Cable

截面積 Nominal cross-section area conductor	構成 Construction	外徑 Conduct diameter	絕緣層 Insulation		遮蔽銅線 構成 Shielding	防蟻層厚 Anti-termite layer thickness	被覆層厚 PVC outer sheath thickness	完成外徑 Overall diameter	導體電阻 Maximum resistance of conductor
			厚度 Thickness mm	外徑 Diameter mm		mm	mm	mm	Ω-km
mm ²		mm							
100	壓縮圓形 Compacted circular	12.0	16.51	48.6	65條線徑 1.45mm 鍍錫銅線 65/1.45mm Tinning copper wire shielding	1.5	3.5	66.0	0.187
150		14.7	16.51	51.3		1.5	3.5	68.5	0.124
200		17.0	16.51	53.6		1.5	3.5	71.0	0.0933
250		19.0	16.51	56.3		1.5	3.5	73.5	0.0754
325		21.7	16.51	59.0		1.5	3.5	76.5	0.0580
400		24.1	16.51	61.4		1.5	3.5	79.0	0.0471
500		26.9	16.51	64.2		1.5	4	82.5	0.0376
600		29.5	16.51	66.8		1.5	4	85.5	0.0308
800	四或五 分割壓縮 Stranded shaped conductor	34.0	16.51	72.2		1.5	4.5	91.5	0.0231
1000		38.0	16.51	76.2		1.5	4.5	95.0	0.0187
1200		41.7	16.51	79.9		1.5	4.5	99.5	0.0156
1400		45.0	16.51	83.2		1.5	4.5	102.5	0.0133
1600		48.2	16.51	86.4		1.5	4.5	106.0	0.0117

◎ 69 kV交連聚乙烯防蟻電纜結構圖
69 kV XLPE Anti-termite Power Cable Structure



特高壓電力電纜

GB Extra High Voltage Power Cable

◎ 500 kV交連聚乙烯電力電纜 / 500 kV XLPE Power Cable

◎ 使用特性 Characteristics

- 適用於固定敷設電力傳送如隧道、管路、直埋等的場所

Laying site for instance in tunnel, pipeline and soil to transport electrical energy. Allow for high fall or vertical installation.
- 導體最高工作溫度90℃，短時過負荷溫度130℃，短路溫度不超過250℃

The maximum assigned temperature of the conductor is 90℃, short time over current temperature is 130℃ , sort-circuit temperature is not exceed 250℃.

◎ 技術性能 Technical Performance

- 大截面電纜採用五分割導體的製造技術，技術成熟，品質穩定

The large size conductor applies 5 segmental technology, which has advantages of very mature process and stable quality.
- 採用超淨XLPE絕緣材料和極光滑半導電屏蔽材料以及優良的押出技術、先進的模具設計、無塵室重力供料，能降低絕緣雜質、氣孔及半導電層突起至最低

Insulation material is super clean and semi-conductive screen material has super smooth. Special extrusive technology advantage die design and gravity loading system in clean room. These designs completely eliminate the risk of insulation contaminants and avoid semi-conductive protrusion.
- 採用機頭後感應式預熱器加熱技術，不但使絕緣層裡外交聯度保持基本一致，同時也降低交聯管溫度，解決外層過度交聯的問題

Induction heater after crosshead conductor heating technology not only makes outer insulation uniform curing degree but also lower curing tube temperature, that solves overcuring problem.
- 採用去氣技術去除交聯反應時殘留在絕緣體中的甲烷氣體，並進一步消除絕緣內應力，達成最佳質量水準

Degassing process removes the methane gas generated from cable insulation causing by chemical reaction course of XLPE and eliminates insulation residual stress.

◎ 技術資料 Technical Data

導體面積 Nominal cross-section area	導體外徑 Conduct diameter	導體直流電阻 Maximum conductor resistance 20℃≤ Ω/km	絕緣層 Insulation		鋁套厚度 Thickness of aluminum shielding	電纜重量 Weight	電纜外徑 Overall diameter
			厚度 Thickness mm	外徑 Diameter mm			
mm2	mm				mm	kg/km	mm
800	35.2	0.0221	34	108	2.9	21600	144
1000	39.4	0.0176	33	110	3.0	23800	146
1200	42.6	0.0151	33	114	3.0	25800	150
1400	46.1	0.0129	32	115	3.0	27800	151
1600	48.9	0.0113	32	118	3.1	30100	154
1800	52.1	0.0101	31	119	3.2	32000	156
2000	55.2	0.0090	31	122	3.2	34400	159
2200	57.9	0.0083	31	125	3.2	36400	161
2500	61.2	0.0073	31	128	3.3	39700	165

◎ 220 kV交連聚乙烯電力電纜 / 220 kV XLPE Power Cable

標 準：IEC 62067、GB/Z 18890-2002、CSBTS.TC 213-1999，另可依據顧客指定標準或技術協議設計生產。
Standard: IEC 62067, GB/Z 18890-2002, CSBTS.TC 213-1999, or in accordance with designated standard or technical data provided by customers.

◎ 型號及說明 Type and Description

型號 Type	說明 Description
YJLW02(03)	銅芯交連聚乙烯絕緣皺紋鋁包防水層聚氯乙烯(聚乙烯)護套電力電纜 Copper conductor XLPE insulation Corrugated Aluminum sheath PVC(PE) outer sheath power cable
YJLW02(03)-Z	阻水型銅芯交連聚乙烯絕緣皺紋鋁包防水層聚氯乙烯(聚乙烯)護套電力電纜 Water proof copper conductor XLPE insulation Corrugated Aluminum sheath PVC(PE) outer sheath power cable

◎ 使用特性 Characteristics

- 導體最高工作溫度90℃

Maximum operating temperature of conductor is 90℃
- 短路時(最長持續時間不超過5秒)電纜導體最高溫度不超過250℃

Short-circuit (lasting less than 5 seconds)
temperature is not exceeded 250℃
- 額定電壓U₀/U 127/220 kV，絕緣最高工作電壓有效值U_m=252 kV

Rated Voltage U₀/U 127/220 kV, maximum insulation
operation effect voltage value U_m=252 kV
- 電纜敷設環境溫度 ≥0℃，最小彎曲半徑 ≥15D (D為電纜外徑)

Ambient temperature for laying ≥0℃, minimum
bending radius ≥15D (D is outer diameter of the cable)

◎ 技術性能 Technical Performance

- 成盤電纜施加1.5 U₀時應無可檢測出的放電，即局部放電量 5pc，施加 2.5 U₀，30分鐘電纜不擊穿

There shall be no detectable discharge from the test object at 1.5 U₀ , and the partial discharge is not greater than 5pc , the voltage test at 2 U₀ for 30 min , the cable shall not breakdown.
- 電纜絕緣偏芯度不大於5%，即：

Insulation eccentricity under 5% that is:

$$\frac{t_{\max}-t_{\min}}{t_{\max}}\times 100\% \leq 5\%$$
- 導體截面800mm²及以上採用分割導體

Conductor cross-section area is above 800mm² and applies segmental conductor
- 絕緣中無大於30μm的微孔及無大於125μm的不透明雜質和無大於160μm的半透明深棕色雜質

The insulation shall not contain greater than 30μm micro visible voids, 125μm non-transparent contaminants and 160μm translucent deep brown contaminants
- 半導電層突起不大於80μm，半導電層與絕緣介面無大於50μm微孔

Semi-conductive protrusion is not greater than 80μm . There are no micro visible voids greater than 50μm in the interface between insulation and semi-conductive layer

◎ 規格 Specification

型號 Type	芯數 Core	額定電壓 Rated Voltage	標稱截面 Nominal Cross-Section Area
YJLW02	1	127/220	400、500、630、800、1000、1200、1400、1600、1800、2000、2200、2500
YJLW03			
YJLW02-Z			
YJLW03-Z			

特高壓電力電纜

GB Extra High Voltage Power Cable

◎ YJLW03

額定電壓 Rated Voltage (kV)	標稱截面 Nominal Cross-section area mm ²	導體外徑 Conduct diameter mm	內屏蔽厚度 Thickness of Conductor screen mm	絕緣層 Insulation		絕緣層 Insulation	鋁套厚度 Thickness of aluminum shielding mm	外護套厚度 Thickness of outer sheath mm	電纜外徑 Overall Diameter mm	電纜重量 Weight Kg/km	導體直流電阻 Maximum conductor resistance 20℃ ≤ Ω/km
				厚度 Thickness mm	外徑 Diameter mm						
220	400	23.5	1.5	27	82.5	1.0	2.4	5.0	112.1	12300	0.0470
	500	26.7	1.5	27	85.7	1.0	2.4	5.0	115.3	13600	0.0366
	630	30.3	1.5	26	87.3	1.0	2.4	5.0	116.9	15100	0.0283
	800	35.2	1.5	25	90.2	1.0	2.4	5.0	119.8	16900	0.0221
	1000	39.4	1.5	24	92.4	1.0	2.6	5.0	122.4	19200	0.0176
	1200	42.6	1.5	24	95.6	1.0	2.6	5.0	125.6	21100	0.0151
	1400	46.1	1.5	24	99.1	1.0	2.6	5.0	129.1	23400	0.0129
	1600	48.9	1.5	24	101.9	1.0	2.6	5.0	131.9	25500	0.0113
	1800	52.1	1.5	24	105.1	1.0	2.8	5.0	135.5	27800	0.0101
	2000	55.2	1.5	24	108.2	1.0	2.8	5.0	138.6	30200	0.0090
	2200	57.9	1.5	24	110.9	1.0	2.8	5.0	141.3	32000	0.0083
	2500	61.2	1.5	24	114.2	1.0	2.8	5.0	144.6	34800	0.0073

◎ YJLW03

額定電壓 Rated Voltage (kV)	標稱截面 Nominal Cross-section area mm ²	導體外徑 Conduct diameter mm	絕緣層 Insulation		鋁套厚度 Thickness of aluminum shielding mm	外護套厚度 Thickness of outer sheath mm	電纜外徑 Overall Diameter mm	電纜重量 Weight Kg/km	導體直流電阻 Maximum conductor resistance 20℃ ≤ Ω/km
			厚度 Thickness mm	外徑 Diameter mm					
110	240	18.7	18.7	60.7	2.0	4.0	87.5	7400	0.0754
	300	20.87	20.87	61.8	2.0	4.0	88.6	8000	0.0601
	400	23.5	23.5	62.5	2.0	4.0	89.3	8800	0.0470
	500	26.7	26.7	64.7	2.0	4.0	91.5	9900	0.0366
	630	30.3	30.3	67.3	2.0	4.5	95.1	11500	0.0283
	800	35.2	35.2	71.2	2.0	4.5	99.0	13400	0.0211
	1000	39.4	39.4	75.4	2.3	4.5	103.8	16000	0.0176
	1200	42.6	42.6	78.6	2.3	5.0	108.0	17900	0.0151
	1400	46.1	46.1	82.1	2.3	5.0	111.5	20100	0.0129
	1600	48.9	48.9	84.9	2.3	5.0	114.3	22200	0.0113

◎ 110 kV交連聚乙烯電力電纜/110 kV XLPE Power Cable

- 標 準：GB11017-2002、IEC60840、Q/WLZ04.03-98，另可依據顧客指定標準或技術協議設計生產
Standard: GB11017-2002、IEC60840、Q/WLZ04.03-98, or in accordance with designated standard or technical data provided by customers.

型號及說明 Type and Description

型號 Type		說明 Description
銅芯 Copper conductor	鋁芯 Aluminum conductor	
YJLW02	YJLLW02	交連聚乙烯絕緣皺紋鋁套聚氯乙烯護套電力電纜 XLPE insulation /corrugated Aluminum sheath/ PVC outer sheath power cable
YJLW03	YJLLW03	交連聚乙烯絕緣皺紋鋁套聚乙烯護套電力電纜 XLPE insulation /corrugated Aluminum sheath/ PE outer sheath power cable
YJLW02-Z	YJLLW02-Z	交連聚乙烯絕緣皺紋鋁套聚氯乙烯護套縱向阻水電力電纜 XLPE insulation /corrugated Aluminum sheath/ PVC outer sheath/ longitudinally water proof power cable
YJLW03-Z	YJLLW03-Z	交連聚乙烯絕緣皺紋鋁套聚乙烯護套縱向阻水電力電纜 XLPE insulation /corrugated Aluminum sheath/ PE outer sheath/ longitudinally water proof power cable

◎ 使用特性 Characteristics

- 額定電壓U₀/U 64/110 kV
Rated Voltage U₀/U 64/110 kV
· 導體最高工作溫度90℃
Maximum operating temperature of conductor is 90℃
· 短路時(最長持續時間不超過5秒)電纜導體最高溫度不超過 250℃
Short-circuit (lasting less than 5 seconds) temperature is not exceeded 250℃
- 系統最高電壓Um=126 kV
Maximum system voltage Um=126 kV
· 電纜敷設環境溫度 ≥0℃，最小彎曲半徑 ≥15D (D為電纜外徑)
Ambient temperature for laying ≥0℃, minimum bending radius ≥15D (D is outer diameter of the cable)

◎ 規格 Specification

型號 Type		芯數 Core	額定電壓 Rated Voltage	標稱截面 Nominal Cross-Section Area
YJLW02	YJLLW02	1	64/110	240、300、400、500、630、800、1000、1200、1400、1600
YJLW03	YJLLW03			
YJLW02-Z	YJLLW02-Z			
YJLW03-Z	YJLLW03-Z			

◎ 技術性能 Technical Performance

- 成盤電纜施加1.75 U₀電壓時，局部放電量不超過5pc，施加2.5 U₀，30分鐘電纜不擊穿
There shall be no detectable discharge from the test object at 1.75 U₀，and the partial discharge is not greater than 5pc，the voltage test at 2.5 U₀ for 30 min， the cable shall not breakdown.
- 絕緣層偏芯度不大於5%，即：
Insulation eccentricity under 5% that is:
- $$\frac{t_{\max}-t_{\min}}{t_{\max}} \times 100\% \leq 5\%$$

XLPE 電 纜

XLPE Power Cable

◎ 25 kV交連聚乙烯電力電纜 / 25 kV XLPE Power Cable

· 中性點接地系統 100% insulation levels

* 符合中國國家標準CNS/Conform to the CNS standard

項目Item	公 稱 截面積 Nominal cross-section area mm ²	絕 緣 厚 度 Nominal thickness of insulation mm	被 覆 厚 度 Thickness of outer sheath mm	約計完成 外 徑 Overall diameter mm	試 驗 電 壓 A.C.test voltage(V) kV/5分	20℃最大導 體電阻 Maximum resistance of conductor (Ω/km)	20℃最小絕 緣電阻 Insulation resistance M(Ω/km)	約 計 重 量 Weight kg/km	標 準 單 長 Length m
單 芯 1C	38	6.6	2.03	29.5	52	0.487	3,600	1,060	300
	60	6.6	2.03	32	52	0.393	3,000	1,340	300
	100	6.6	2.03	35	52	0.180	2,800	1,850	200
	150	6.6	2.03	38	52	0.118	2,000	2,480	200
	200	6.6	2.03	40	52	0.0922	2,000	2,940	200
	250	6.6	2.03	42.5	52	0.0722	1,800	3,560	200
	325	6.6	2.79	47	52	0.0565	1,500	4,500	200
	400	6.6	2.79	50	52	0.0454	1,500	5,390	150
	500	6.6	2.79	52	52	0.0373	1,500	6,300	150
三 芯 3C	38	6.6	2.80	59	52	0.499	3,600	3,520	200
	60	6.6	2.80	64	52	0.309	3,000	4,440	200
	100	6.6	2.80	71	52	0.184	2,800	6,100	150
	150	6.6	3.58	80	52	0.120	2,000	8,410	150
	200	6.6	3.58	84	52	0.0940	2,000	9,930	150
	250	6.6	3.58	89	52	0.0736	1,800	11,930	150
	325	6.6	3.58	96	52	0.0576	1,500	14,480	150

◎ 25 kV交連聚乙烯電力電纜 / 25 kV XLPE Power Cable

· 中性點非接地系統 133% insulation levels

* 符合中國國家標準CNS/Conform to the CNS standard

項目Item	公 稱 截面積 Nominal cross-section area mm ²	絕 緣 厚 度 Nominal thickness of insulation mm	被 覆 厚 度 Thickness of outer sheath mm	約計完成 外 徑 Overall diameter mm	試 驗 電 壓 A.C.test voltage(V) kV/5分	20℃最大導 體電阻 Maximum resistance of conductor (Ω/km)	20℃最小絕 緣電阻 Insulation resistance M(Ω/km)	約 計 重 量 Weight kg/km	標 準 單 長 Length m
單 芯 1C	38	8.76	2.03	34.5	64	0.487	4,500	1,300	200
	60	8.76	2.03	36.9	64	0.303	3,800	1,590	200
	100	8.76	2.03	39.5	64	0.180	3,500	2,100	150
	150	8.76	2.03	43	64	0.118	3,200	2,740	150
	200	8.76	2.80	46.5	64	0.0922	2,800	3,370	150
	250	8.76	2.80	49	64	0.0722	2,800	4,060	150
	325	8.76	2.80	51.5	64	0.0565	2,400	4,880	150
	400	8.76	2.80	54	64	0.0454	2,000	5,740	150
	500	8.76	2.80	57	64	0.0373	2,000	6,670	150
三 芯 3C	38	8.76	2.80	70	64	0.499	4,500	4,380	150
	60	8.76	3.58	76	64	0.309	3,800	5,620	150
	100	8.76	3.58	83	64	0.184	3,500	7,280	150
	150	8.76	3.58	90	64	0.120	3,200	9,420	150
	200	8.76	3.58	94	64	0.0940	2,800	10,980	150
	250	8.76	3.58	99	64	0.0736	2,800	13,230	150
	325	8.76	3.58	105	64	0.0576	2,400	15,850	150



◎ 600V交連聚乙烯電力電纜 / 600V XLPE Power Cable

* 符合中國國家標準CNS/Conform to the CNS standard									
項目Item 芯數 Cores	公 稱 截面積 Nominal cross-section area mm ²	絕 緣 厚 度 Nominal thickness of insulation mm	被 覆 厚 度 Thickness of outer sheath mm	約計完成 外 徑 Overall diameter mm	試 驗 電 壓 A.C.test voltage(V) kV/5分	20℃最大導 體電阻 Maximum resistance of conductor (Ω/km)	20℃最小絕 緣電阻 Insulation resistance M(Ω/km)	約 計 重 量 Weight kg/km	標 準 單 長 Length m
單 芯 1C	2.0	0.76	0.38	4.4	3.5	9.24	2,500	51	300
	3.5	0.76	0.38	5.0	3.5	5.20	2,000	71	300
	5.5	0.76	0.38	5.6	3.5	3.33	2,000	94	300
	8	1.14	0.38	6.6	5.5	2.31	1,500	134	300
	14	1.14	0.76	8.6	5.5	1.30	1,500	203	300
	22	1.14	0.76	9.8	5.5	0.824	1,500	288	300
	38	1.40	0.76	12.1	7.0	0.487	1,000	450	300
	60	1.40	1.14	15.6	7.0	0.303	1,000	679	300
	100	1.40	1.14	18.5	7.0	0.180	800	1,083	300
	150	1.65	1.65	23.4	8.0	0.118	800	1,676	300
	200	1.65	1.65	25.5	8.0	0.0922	800	2,091	200
	250	1.65	1.65	28.0	8.0	0.0722	600	2,665	200
	325	2.03	1.65	31.4	10.0	0.0565	600	3,380	200
	400	2.03	1.65	34.1	10.0	0.0454	600	4,147	200
	500	2.03	1.65	36.8	10.0	0.0373	600	4,990	150
	600	2.41	2.41	38.5	10.0	0.0304	600	6,105	150
	800	2.41	2.41	46.9	10.0	0.0234	400	7,883	150
	1,000	2.41	2.41	52.1	10.0	0.0179	400	10,160	150
二 芯 2C	2.0	0.76	1.14	9.8	3.5	9.42	2,500	116	300
	3.5	0.76	1.14	11.0	3.5	5.30	2,000	160	300
	5.5	0.76	1.14	12.2	3.5	3.40	2,000	213	300
	8	1.14	1.52	16.0	5.5	2.36	1,500	341	300
	14	1.14	1.52	18.4	5.5	1.33	1,500	502	300
	22	1.14	1.52	20.8	5.5	0.840	1,500	699	300
	38	1.40	2.03	26.6	7.0	0.497	1,000	927	300
	60	1.40	2.03	31.0	7.0	0.309	1,000	1,683	300
	100	1.40	2.03	36.8	7.0	0.184	800	2,615	300
	150	1.65	2.03	46.3	8.0	0.120	800	4,053	300
	200	1.65	2.79	50.3	8.0	0.0940	800	5,003	300
	250	1.65	2.79	55.3	8.0	0.0736	600	6,313	200
	325	2.03	2.79	62.1	10.0	0.0576	600	7,985	200

◎ 600V交連聚乙烯電力電纜 / 600V XLPE Power Cable

* 符合中國國家標準CNS/Conform to the CNS standard									
項目Item 芯數 Cores	公 稱 截面積 Nominal cross-section area mm ²	絕 緣 厚 度 Nominal thickness of insulation mm	被 覆 厚 度 Thickness of outer sheath mm	約計完成 外 徑 Overall diameter mm	試 驗 電 壓 A.C.test voltage(V) kV/5分	20℃最大導 體電阻 Maximum resistance of conductor (Ω/km)	20℃最小絕 緣電阻 Insulation resistance M(Ω/km)	約 計 重 量 Weight kg/km	標 準 單 長 Length m
三 芯 3C	2.0	0.76	1.14	10.4	3.5	9.42	2,500	142	300
	3.5	0.76	1.14	11.6	3.5	5.30	2,000	200	300
	5.5	0.76	1.14	12.9	3.5	3.40	2,000	272	300
	8	1.14	1.52	17.0	5.5	2.36	1,500	431	300
	14	1.14	1.52	19.5	5.5	1.33	1,500	649	300
	22	1.14	2.03	25.1	5.5	0.840	1,500	971	300
	38	1.40	2.03	28.3	7.0	0.497	1,000	1,533	300
	60	1.40	2.03	33.0	7.0	0.309	1,000	2,271	300
	100	1.40	2.03	39.3	7.0	0.184	800	3,604	300
	150	1.65	2.79	49.4	8.0	0.120	800	5,560	300
	200	1.65	2.79	53.7	8.0	0.0940	800	6,907	200
	250	1.65	2.79	59.1	8.0	0.0736	600	8,769	200
	325	2.03	2.79	66.5	10.0	0.0576	600	11,120	200
四 芯 4C	2.0	0.76	1.14	11.2	3.5	9.42	2,500	174	300
	3.5	0.76	1.15	12.7	3.5	5.30	2,000	152	300
	5.5	0.76	1.53	14.9	3.5	3.40	2,000	373	300
	8	1.15	1.53	18.5	5.5	2.36	1,500	545	300
	14	1.15	1.53	22.4	5.5	1.33	1,500	885	300
	22	1.15	2.03	25.3	5.5	0.840	1,500	1,251	300
	38	1.40	2.03	31.1	7.0	0.497	1,000	1,960	300
	60	1.40	2.03	36.4	7.0	0.309	1,000	2,943	300
	100	1.40	2.79	45.1	7.0	0.184	800	4,845	300

耐燃電纜

Fire Resistant Cable

◎ 600V XLPE絕緣 低煙無毒被覆耐火 單芯電纜
600V XLPE insulated, LSHF sheathed fire resistant single core cable

芯線數 Core number	導體 Conductor			耐火層厚度 Thickness of fire retardant	絕緣厚度 Insulation thickness	被覆厚度 Thickness of Outer sheath	完成外徑 Overall diameter	導電體阻 Conductor resistant	試驗電壓 AC test Voltage	絕緣電阻 Insulation resistance	標準單長 Standard length
	公稱斷面積 Nominal cross-sectional area mm²	構成 Construction no./mm	外徑 Diameter mm								
1	—	1／1.2	1.2	0.4	0.8	1.5	6.6	15.8	1.5	2500	100
	—	1／1.6	1.6	0.4	0.8	1.5	7.0	8.92	1.5	2500	100
	—	1／2.0	2.0	0.4	0.8	1.5	7.4	5.65	1.5	2500	100
	—	1／2.6	2.6	0.4	0.8	1.5	8.4	3.35	1.5	2500	100
	1.25	7／0.45	1.35	0.4	0.8	1.5	6.8	16.5	1.5	2500	100
	2	7／0.6	1.8	0.4	0.8	1.5	7.2	9.24	1.5	2500	100
	3.5	7／0.8	2.4	0.4	0.8	1.5	7.8	5.20	1.5	2500	100
	5.5	7／1.0	3.0	0.4	1.0	1.5	8.8	3.33	1.5	2500	100
	8	7／1.2	3.6	0.4	1.0	1.5	9.4	2.31	1.5	2000	100
	14	7／1.6	4.8	0.6	1.0	1.5	11.0	1.30	2.0	1500	100
	22	7／2.0	6.0	0.6	1.2	1.5	12.5	0.824	2.0	1500	100
	30	7／2.3	6.9	0.6	1.2	1.5	13.5	0.623	2.0	1500	100
	38	7／2.6	7.8	0.6	1.2	1.5	14.5	0.487	2.5	1500	100
	50	19／1.8	9.0	0.6	1.5	1.5	16.5	0.378	2.5	1500	100
	60	19／2.0	10.0	0.6	1.5	1.5	17.0	0.303	2.5	1500	100
	80	19／2.3	11.5	0.6	1.5	1.5	19.0	0.229	2.5	1500	100
	100	19／2.6	13.0	0.6	2.0	1.5	21.0	0.180	3.0	1500	100
	125	19／2.9	14.5	0.6	2.0	1.6	23.0	0.144	3.0	1000	100
	150	37／2.3	16.1	0.6	2.0	1.7	25.0	0.118	3.0	900	100
	200	37／2.6	18.2	0.6	2.5	1.8	28.0	0.0922	3.0	1000	100
	250	61／2.3	20.7	0.6	2.5	1.9	31.0	0.0722	3.0	900	100
	325	61／2.6	23.4	0.6	2.5	2.0	33.5	0.0565	3.0	800	100
	400	61／2.9	26.1	0.6	2.5	2.1	36.5	0.0454	3.0	700	100
	500	61／3.2	28.8	0.6	3.0	2.2	40.0	0.0373	3.5	800	100

耐熱電纜

Heat Resistant Cable

◎ 單芯 / Single Core

標稱導體截面積（mm²） 或導體直徑（mm） Nominal cross-section area conductor or conductor diameter	芯線數 Core number	絕緣體厚度 Nominal thickness of insulation mm	被覆體厚度 Thickness of extruded outer sheath （mm）	導體電阻 Maximum resistance of conductor Ω/km（20℃）	耐電壓 A.C.test voltage （V）
0.8 mm	1	0.76	0.38	36.00	1500
0.9 mm	1	0.76	0.38	28.50	1500
1.0 mm	1	0.76	0.38	23.10	1500
1.2 mm	1	0.76	0.38	16.00	1500
1.6 mm	1	0.76	0.38	9.01	1500
2.0 mm	1	0.76	0.38	5.77	1500
2.6 mm	1	0.76	0.38	3.41	1500
3.2 mm	1	1.14	0.38	2.25	1500
4.0 mm	1	1.14	0.38	1.44	2000
5.0 mm	1	1.14	0.38	0.92	2000
0.50 mm²	1	0.76	0.38	39.00	1500
0.75 mm²	1	0.76	0.38	26.00	1500
0.9 mm²	1	0.76	0.38	21.20	1500
1.0 mm²	1	0.76	0.38	19.50	1500
1.25 mm²	1	0.76	0.38	16.80	1500
2.0 mm²	1	0.76	0.38	9.43	1500
3.5 mm²	1	0.76	0.38	5.20	1500
5.5 mm²	1	0.76	0.38	3.33	1500
8 mm²	1	1.14	0.38	2.31	1500
14 mm²	1	1.14	0.76	1.30	2000
22 mm²	1	1.14	0.76	0.830	2000
30 mm²	1	1.14	0.76	0.629	2000
38 mm²	1	1.4	0.76	0.492	2500
50 mm²	1	1.4	1.14	0.378	2500
60 mm²	1	1.4	1.14	0.307	2500
80 mm²	1	1.4	1.14	0.232	2500
100 mm²	1	1.4	1.14	0.181	2500
125 mm²	1	1.65	1.65	0.146	3000
150 mm²	1	1.65	1.65	0.0119	3000
200 mm²	1	1.65	1.65	0.0931	3000
250 mm²	1	1.65	1.65	0.0722	3000
325 mm²	1	2.03	1.65	0.0565	3500

耐熱電纜Heat Resistant Cable

◎ 多芯 / Multi-core

標稱導體截面積 (mm ²) 或導體直徑 (mm) Nominal cross-section area conductor or conductor diameter	芯線數 Core number	絕緣體厚度 Nominal thickness of insulation mm	導體電阻 Maximum resistance of conductor Ω/km (20℃)	耐電壓 A.C.test voltage (V)
0.8 mm	2－30	0.76	36.00	1500
0.9 mm	2－30	0.76	28.50	1500
1.0 mm	2－30	0.76	23.10	1500
1.2 mm	2－30	0.76	16.00	1500
1.6 mm	2－30	0.76	9.01	1500
2.0 mm	2－30	0.76	5.77	1500
2.6 mm	2－30	0.76	3.41	1500
3.2 mm	2－8	1.14	2.25	1500
4.0 mm	2－8	1.14	1.44	2000
5.0 mm	2－30	1.14	0.92	2000
0.50 mm ²	2－30	0.76	39.00	1500
0.75 mm ²	2－30	0.76	26.00	1500
0.9 mm ²	2－30	0.76	21.20	1500
1.0 mm ²	2－30	0.76	19.50	1500
1.25 mm ²	2－30	0.76	16.80	1500
2.0 mm ²	2－30	0.76	9.43	1500
3.5 mm ²	2－20	0.76	5.20	1500
5.5 mm ²	2－20	0.76	3.33	1500
8 mm ²	2－12	1.14	2.31	1500
14 mm ²	2－7	1.14	1.30	2000
22 mm ²	2－7	1.14	0.830	2000
30 mm ²	2－5	1.14	0.629	2000
38 mm ²	2－4	1.4	0.492	2500
50 mm ²	2－3	1.4	0.378	2500
60 mm ²	2	1.4	0.307	2500

太陽能電纜PV Cable

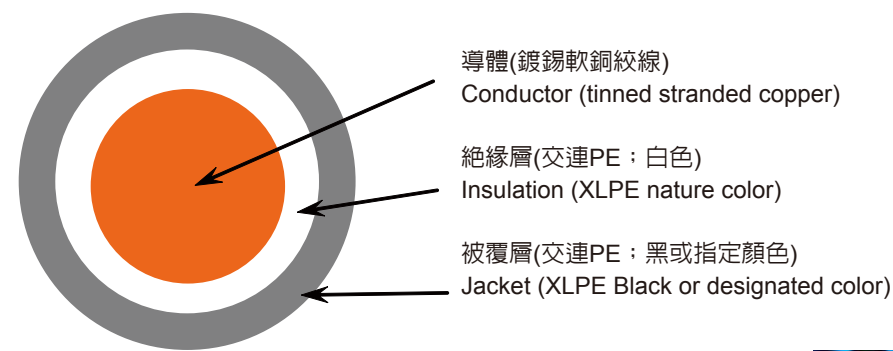
◎ 耐壓等級：600 / 1000V
Rated voltage：600/1000V

◎ 通過認證：PV cable UL4703，File No.:E332815
Certificate: PV cable UL4703，File No.:E332815

◎ 構造Construction

導體規格 Conductor size	導體構造 Conductor construction	絕緣厚度 Insulation thickness (mm)	厚度 Thickness of jacket(mm)	導體電阻 Maximum conductor resistance (Ω/km@20℃)	外徑(約) Outer diameter (mm)	概算重量 Weight (kg/km)	包裝長度 Packing (feet/reel)
8AWG	49/0.47	1.14(45mils)	1.14(45mils)	2.25	8.4	130	1000
10AWG	65/0.32	1.14(45mils)	1.14(45mils)	3.59	7.6	90	1000
12AWG	41/0.32	1.14(45mils)	1.14(45mils)	5.70	6.9	67	1000
14AWG	41/0.254	1.14(45mils)	1.14(45mils)	9.06	6.5	52	1000
16AWG	26/0.254	1.14(45mils)	1.14(45mils)	14.4	6.1	42	1000

剖面圖 Cross-section diagram



◎ 產品描述 Product Description：

導體：鍍錫軟銅絞線
Conductor: Tinned stranded copper
絕緣：交連PE；顏色：白
Insulation: XLPE; Color: white
被覆：交連PE；顏色：黑或指定顏色
Jacket: XLPE; Color: Black or designated color
工作溫度：-40℃~+90℃
Operation temperature: -40℃~+90℃



◎ 產品特點Characteristics:

經UL(UL4703)認證，抗臭氧、紫外線、水蒸氣、無鉛、無鹵、阻燃、極低的煙釋放量、耐油、耐化學腐蝕、導體臨時過載可耐溫130℃，工作環境溫度-40℃~+90℃，良好的低溫柔軟性、耐切割、撕裂和裂縫延伸，絕緣和外護套可一次剝離，工作溫度未達90℃時使用壽命可超過20年，符合國家標準抗菌、抗微生物。
Approval by UL(UL4703), ozone, UV, steam, oil, chemical etching resistant、lead, halogen free、flame resistant、extra low smoke released. Operation temperature from -40℃ to +90℃, short time over current temperature is 130℃. Good flexibility at low temperature, bears cutting tearing and the crack extend. Insulation and jacket can be peeled in one time. Tenure of use may exceed 20 years if operating temperature kept under 90℃. Conform to the national standards antibacterial and the anti-microorganism.

鍍錫銅帶

PV Ribbon

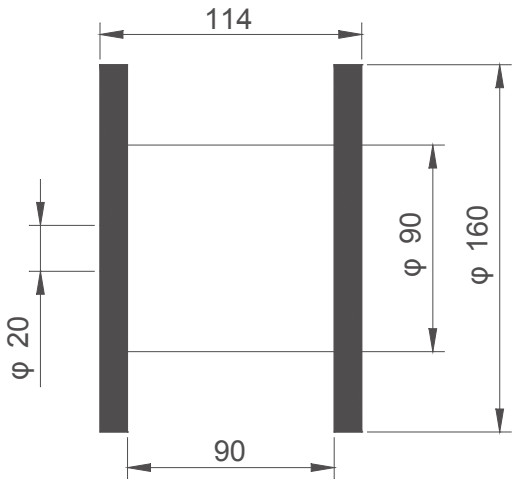
◎ 常用規格 Commonly used specification

樣式 Type	銅帶寬度 Width (mm)	銅帶厚度 Thickness (mm)	鍍錫厚度* Tinned thickness (μm)	伸長率 Elongation (%)
太陽電池串接用 For solar cells interconnection (Cell/String Ribbon)	2.0	0.15	10~40	25%↑
		0.16	10~40	25%↑
		0.20	10~40	25%↑
匯流串接用 For solar tab interconnection (Bus Ribbon)	5.0	0.20	10~40	15%↑
		0.30	10~40	15%↑

* 鍍錫厚度由客戶指定 Tinned thickness designated by customers

鍍錫合金成分 Solder Alloy			
Sn63/Pb37	Sn=63%	Pb=37%	
Sn62/Pb36/Ag2	Sn=62%	Pb=36%	Ag=2.0%
Sn96.5/Ag3/Cu0.5	Sn=96.5%	Pb=3.0%	Ag=0.5%

包裝方式：膠軸；型號：A5；詳細尺寸詳下圖(單位: mm)：
Packing: Plastic Reel; Type：A5; Dimension details as below (unit mm):



PVC 電纜

PVC Cable

◎ 圓形600V 聚氯乙烯絕緣及被覆電纜2心
Circular 600V PVC insulation and sheath cable 2 cores

導體 Conductor			絕緣體厚度 Nominal Thickness of insulation	被覆體厚度 Thickness of outer sheath	完成外徑 Overall diameter	導體電阻 Maximum conductor resistance (20℃) (Ω/km)	試驗電壓 A.C. test voltage	絕緣電阻 Insulation resistance	概算重量 Weight		
截稱截面積 mm² 或直徑 Nominal Cross-section area Conductor or Conductor diameter mm	構成股數 /單線徑 Construction (股/mm)或形狀	外徑 Diameter mm	mm	mm	(約)mm	軟銅 Annealed copper	V	(20℃)M (Ω/km)	kg/km		
2.0	7/0.6	1.8	0.8	1.5	10.5	9.42	1500	50	135		
3.5	7/0.8	2.4			11.5	5.30			180		
5.5	7/1.0	3.0			13.5	3.40			260		
8	7/1.2	3.6	1.2		15.5	2.36	360				
	圓形壓縮 Compacted	3.4			15.5	2.34	330				
14	7/1.6	4.8	1.4		19.0	1.33	2000	40	555		
	圓形壓縮 Compacted	4.4		18.0	1.34	505					
22	7/2.0	6.0	1.6	1.6	23	0.840			815		
	圓形壓縮 Compacted	5.5		1.6	21	0.849			730		
30	7/2.3	6.9		1.6	24	0.635			935		
	圓形壓縮 Compacted	6.4		23	0.622	925					
38	7/2.6	7.8	1.8	1.7	27	0.497	2500	30	1250		
	圓形壓縮 Compacted	7.3			26	0.491			1170		
50	19/1.8	9.0		1.8	29	0.386			1520		
	圓形壓縮 Compacted	8.4			28	0.373			1440		
60	19/2.0	10.0	1.9	32	0.309	1820					
	圓形壓縮 Compacted	9.3		31	0.311	1700					
80	19/2.3	11.5	2.0	2.0	36	0.234	3000	30	2360		
	圓形壓縮 Compacted	10.7			34	0.234			2240		
100	19/2.6	13.0		2.2	39	0.184			2900		
	圓形壓縮 Compacted	12.0		2.1	37	0.187			2680		
125	19/2.9	14.5	2.2	2.3	43	0.147			3000	20	3500
	圓形壓縮 Compacted	13.5		2.2	41	0.149					3340
150	37/2.3	16.1		2.5	47	0.120	4100				
	圓形壓縮 Compacted	14.7		2.3	44	0.124	3870				
200	37/2.6	18.2	2.4	2.7	52	0.094	3000	20		5170	
	圓形壓縮 Compacted	17.0		2.6	50	0.093				5090	
250	61/2.3	20.7		2.9	58	0.074			6530		
	圓形壓縮 Compacted	19.0		2.7	54	0.075			6210		
325	61/2.6	23.4	2.6	3.1	64	0.058					8230
	圓形壓縮 Compacted	21.7		3.0	61	0.058					8000

◎ 圓形600V 聚氯乙烯絕緣及被覆電纜3心 / Circular 600V PVC insulation and sheath cable 3 cores

導體 Conductor			絕緣體厚度 Nominal Thickness of insulation	被覆體厚度 Thickness of outer sheath	完成外徑 Overall diameter	導體電阻 Maximum conductor resistance (20℃) (Ω/km)	試驗電壓 A.C. test voltage	絕緣電阻 Insulation resistance	概算重量 Weight
截稱截面積 mm² 或直徑 Nominal Cross-section area Conductor or Conductor diameter mm	構成股數 /單線徑 Construction (股/mm)或形狀	外徑 Diameter mm	mm	mm	(約)mm	軟銅 Annealed copper	V	(20℃)M (Ω/km)	kg/km
2.0	7/0.6	1.8	0.8	1.5	11.0	9.42	1500	50	165
3.5	7/0.8	2.4			12.5	5.30			235
5.5	7/1.0	3.0			14.5	3.40			335
8	7/1.2	3.6	1.2		16.5	2.36			465
	圓形壓縮 Compacted	3.4			16.0	2.34			435
14	7/1.6	4.8	1.4		20.0	1.33	2000	40	740
	圓形壓縮 Compacted	4.4		19.0	1.34	670			
22	7/2.0	6.0	1.6	24	0.840	1070			
	圓形壓縮 Compacted	5.5		23	0.849	1000			
30	7/2.3	6.9		1.7	26	0.635			1340
	圓形壓縮 Compacted	6.4			24	0.622			1290
38	7/2.6	7.8		1.8	29	0.497	2500	30	1690
	圓形壓縮 Compacted	7.3			28	0.491			1630
50	19/1.8	9.0	1.9		31	0.386			2090
	圓形壓縮 Compacted	8.4	1.8		30	0.373			2010
60	19/2.0	10.0	2.0		34	0.309			2480
	圓形壓縮 Compacted	9.3	1.9		33	0.311			2370
80	19/2.3	11.5	2.0	38	0.234	3250			
	圓形壓縮 Compacted	10.7		36	0.234	3120			
100	19/2.6	13.0		2.3	42	0.184			3990
	圓形壓縮 Compacted	12.0		2.2	40	0.187			3780
125	19/2.9	14.5	2.2	2.4	46	0.147	3000	20	4910
	圓形壓縮 Compacted	13.5		2.3	44	0.149			4720
150	37/2.3	16.1		2.6	50	0.120			5810
	圓形壓縮 Compacted	14.7		2.5	47	0.124			5520
200	37/2.6	18.2	2.4	2.8	56	0.094	20	7330	
	圓形壓縮 Compacted	17.0		2.7	53	0.093		7260	
250	61/2.3	20.7		3.0	52	0.074		9300	
	圓形壓縮 Compacted	19.0		2.9	58	0.075		8980	
325	61/2.6	23.4	2.6	3.3	69	0.058		11780	
	圓形壓縮 Compacted	21.7		3.1	65	0.058		11530	
直徑1.0	--	1.0	0.8	1.5	9.1	23.30	1500	50	100
1.2	--	1.2			9.5	16.10			120
1.6	--	1.6			10.5	9.10			155
2.0	--	2.0			11.5	5.76			200
2.6	--	2.6			13.5	3.42			305
3.2	--	3.2			16.0	2.25			435

◎ 圓形600V 聚氯乙烯絕緣及被覆電纜4心 / Circular 600V PVC insulation and sheath cable 4 cores

導體 Conductor			絕緣體厚度 Nominal Thickness of insulation	被覆體厚度 Thickness of outer sheath	完成外徑 Overall diameter	導體電阻 Maximum conductor resistance (20℃) (Ω/km)	試驗電壓 A.C. test voltage	絕緣電阻 Insulation resistance	概算重量 Weight
截稱截面積 mm² 或直徑 Nominal Cross-section area Conductor or Conductor diameter mm	構成股數 /單線徑 Construction (股/mm)或形狀	外徑 Diameter mm	mm	mm	(約)mm	軟銅 Annealed copper	V	(20℃)M (Ω/km)	kg/km
2.0	7/0.6	1.8	0.8	1.5	12.0	9.42	1500	50	200
3.5	7/0.8	2.4	1.0		13.5	5.30			290
5.5	7/1.0	3.0			16.0	3.40			420
8	7/1.2	3.6	1.2		18.0	2.36			590
	圓形壓縮 Compacted	3.4			17.5	2.34			550
14	7/1.6	4.8	1.4	1.6	22.0	1.33	2000	40	945
	圓形壓縮 Compacted	4.4		1.5	21.0	1.34			875
22	7/2.0	6.0	1.6	1.7	27	0.840			1390
	圓形壓縮 Compacted	5.5			25	0.849			1290
30	7/2.3	6.9		1.8	29	0.635			1720
	圓形壓縮 Compacted	6.4		1.7	27	0.622			1650
38	7/2.6	7.8		1.9	32	0.497	2500	30	2180
	圓形壓縮 Compacted	7.3				31			0.491
50	19/1.8	9.0	1.8	2.0	35	0.386			2690
	圓形壓縮 Compacted	8.4			33	0.373			2600
60	19/2.0	10.0		2.1	38	0.309			3210
	圓形壓縮 Compacted	9.3			36	0.311			3090
80	19/2.3	11.5		2.0	2.3	42	0.234	4200	
	圓形壓縮 Compacted	10.7			2.2	40	0.234	4070	
100	19/2.6	13.0			2.5	47	0.184	5200	
	圓形壓縮 Compacted	12.0			2.4	44	0.187	4950	
125	19/2.9	14.5	2.2	2.6	51	0.147	3000	20	6380
	圓形壓縮 Compacted	13.5		2.5	49	0.149			6150
150	37/2.3	16.1		2.8	56	0.120		20	7550
	圓形壓縮 Compacted	14.7		2.7	52	0.124		30	7210
200	37/2.6	18.2	2.4	3.0	62	0.094		20	9590
	圓形壓縮 Compacted	17.0		2.9	59	0.093			9480
250	61/2.3	20.7		3.3	69	0.074	12200		
	圓形壓縮 Compacted	19.0		3.1	65	0.075	11750		
325	61/2.6	23.4	2.6	3.6	77	0.058	15240		
	圓形壓縮 Compacted	21.7		3.4	73	0.058	15100		
直徑1.0	--	1.0	0.8	1.5	9.8	23.30	1500	50	125
1.2	--	1.2			10.5	16.10			145
1.6	--	1.6			11.5	9.10			190
2.0	--	2.0			12.5	5.76			250
2.6	--	2.6			15.0	3.42			385
3.2	--	3.2	1.2	17.0	2.25	550			

◎ 600V 聚氯乙烯絕緣電線(單線) / 600V PVC insulation wire (solid conductor)

導體外徑 Conductor diameter	PVC 絕緣體 厚度 Nominal thickness of insulation	完成 外徑 Overall diameter (約)	導 體 電 阻 Maximum resistance of conductor (20℃) Ω/km			試驗 電壓 A.C.test voltage	絕 緣 電 阻 Insulation resistance MΩ · km		參 考 值		
			軟 銅 Annealed copper	硬 銅 Hard drawn copper	鍍 錫 軟 銅 Tinned annealed copper		(20℃)	(60℃)	概算重量 Weight	標準長度 Length	包裝法 Packing
0.8	0.8	2.4	35.7	37.2	37.2	1500	50	0.2	11	300	束捲Coil
1.0	0.8	2.6	22.8	23.8	23.8	1500	50	0.2	14	300	束捲Coil
1.2	0.8	2.8	15.8	16.5	16.5	1500	50	0.2	17	300	束捲Coil
1.6	0.8	3.2	8.92	9.29	9.29	1500	50	0.2	27	300	束捲Coil
2.0	0.8	3.6	5.65	5.83	5.83	1500	50	0.15	38	300	束捲Coil
2.6	1.0	4.6	3.35	3.45	3.45	1500	50	0.15	65	300	束捲Coil
3.2	1.2	5.6	2.21	2.28	2.28	1500	50	0.15	95	300	束捲Coil
4.0	1.4	6.8	1.41	1.46	1.46	2000	50	0.15	145	300	束捲Coil
5.0	1.6	8.2	0.904	0.932	0.932	2000	40	0.10	220	200	束捲Coil



◎ 600V 聚氯乙烯絕緣電線（絞線） / 600V PVC insulation wire (stranded conductor)

導 體 Conductor			PVC 絕緣 體厚度 Nominal thickness of insulation	完成 外徑 Overall diameter	導體電阻 Maximum resistance of conductor (20℃) Ω/km			試驗 電壓 A.C.test voltage V	絕 緣 電 阻 Insulation resistance MΩ · km		參考值 Reference		
標稱截面積 Nominal cross-section area mm	構成 單線數／ 單線徑 Construction 股/mm	外徑 Diameter (約) mm			軟銅 Annealed copper	硬銅 Hard drawn copper	鍍錫 軟銅 Tinned annealed copper		(20℃)	(60℃)	概算 重量 Weight kg/km	標準 長度 Length m	包裝法 Packing
0.9	7/0.4	1.2	0.8	2.8	20.9	21.7	22.1	1500	50	0.2	16	300	束捲Coil
1.25	7/0.45	1.4	0.8	3.0	16.5	17.1	17.5	1500	50	0.2	19	300	束捲Coil
2.0	7/0.6	1.8	0.8	3.4	9.24	9.63	9.63	1500	50	0.2	28	300	束捲Coil
3.5	7/0.8	2.4	0.8	4.0	5.20	5.41	5.41	1500	50	0.2	45	300	束捲Coil
5.5	7/1.0	3.0	1.0	5.0	3.33	3.47	3.47	1500	50	0.15	70	300	束捲Coil
8	7/1.2	3.6	1.2	6.0	2.31	2.41	—	1500	50	0.15	105	300	束捲Coil
	圓形壓縮 compacted	3.4		5.8	2.29						100		
14	7/1.6	4.8	1.4	7.6	1.30	1.35	—	2000	40	0.15	175	300	束捲Coil
	圓形壓縮 compacted	4.4		7.2	1.31						160		
22	7/2.0	6.0	1.6	9.2	0.824	0.849	—	2000	40	0.1	265	200	束捲Coil
	圓形壓縮 compacted	5.5		8.7	0.832						245		
30	7/2.3	6.9	1.6	10.5	0.623	0.642	—	2000	40	0.1	335	100	束捲Coil
	圓形壓縮 compacted	6.4		10.0	0.610						325		
38	7/2.6	7.8	1.8	11.5	0.487	0.502	—	2500	40	0.1	430	100	束捲Coil
	圓形壓縮 compacted	7.3		11.0	0.481						405		
50	19/1.8	9.0	1.8	13.0	0.378	0.394	—	2500	30	0.1	535	300	線軸 Reel
	圓形壓縮 compacted	8.4		12.4	0.366						525		
60	19/2.0	10.0	1.8	14.0	0.303	0.313	—	2500	30	0.07	650	300	線軸 Reel
	圓形壓縮 compacted	9.3		13.3	0.305						630		
80	19/2.3	11.5	2.0	15.5	0.229	0.237	—	2500	30	0.07	850	300	線軸 Reel
	圓形壓縮 compacted	10.7		14.7	0.229						815		
100	19/2.6	13.0	2.0	17.0	0.180	0.185	—	2500	30	0.07	1080	300	線軸 Reel
	圓形壓縮 compacted	12.0		16.0	0.183						1025		
125	19/2.9	14.5	2.2	19.0	0.144	0.148	—	3000	20	0.07	1300	300	線軸 Reel
	圓形壓縮 compacted	13.5		18.0	0.146						1275		
150	37/2.3	16.1	2.2	21	0.118	0.121	—	3000	20	0.05	1610	300	線軸 Reel
	圓形壓縮 compacted	14.7		20	0.122						1575		
200	37/2.6	18.2	2.4	23	0.0922	0.0951	—	3000	20	0.05	2040	300	線軸 Reel
	圓形壓縮 compacted	17.0		22	0.0915						1965		
250	61/2.3	20.7	2.4	26	0.0722	0.0744	—	3000	20	0.05	2610	200	線軸 Reel
	圓形壓縮 compacted	19.0		24	0.0739						2495		
325	61/2.6	23.4	2.6	29	0.0565	0.0582	—	3500	20	0.05	3320	200	線軸 Reel
	圓形壓縮 compacted	21.7		27	0.0568						3170		
400	61/2.9	26.1	2.6	32	0.0454	0.0468	—	3500	20	0.05	4080	200	線軸 Reel
	圓形壓縮 compacted	24.1		30	0.0462						3940		
500	61/3.2	28.8	2.8	35	0.0373	0.0384	—	3500	20	0.05	4970	200	線軸 Reel
	圓形壓縮 compacted	26.9		33	0.0369						4770		

架空電纜

Overhead Cable

◎ 架空鋼心鋁絞線 Concentric-Lay-Stranded Aluminum Conductors, Coated-Steel Reinforced (ACSR)

規 格 Size	組 成 Construction		絞 線 徑 Diameter	單 位 重 量 Linear density
	鋁 線 Aluminum No./mm	鋼 線 Steel No./mm		
# 4 AWG	6/2.12	1/2.12	3.36	85
# 2 AWG	6/2.67	1/2.67	8.02	136
2/0 AWG	6/3.78	1/3.78	11.35	272
4/0 AWG	6/4.77	1/4.77	14.31	433
266.8 MCM	26/2.57	7/2.00	16.30	546
300 MCM	26/2.73	7/2.12	17.27	614
336.4 MCM	26/2.89	7/2.25	18.29	689
336.4 MCM	30/2.69	7/2.69	18.83	784
477 MCM	18/4.14	1/4.14	20.68	771
477 MCM	26/3.44	7/2.67	21.78	977
477 MCM	30/3.20	7/3.20	22.42	1112
636 MCM	24/4.14	7/2.76	24.81	1219
795 MCM	26/4.44	7/3.45	28.13	1628
795 MCM	45/3.38	7/2.25	27.01	1333
954 MCM	54/3.38	7/3.38	30.38	1829
954 MCM	45/3.70	7/2.47	29.59	1600

◎ 架空全鋁線 Concentric-Lay-Stranded Aluminum Conductors

導體尺寸 Conductor size	構 造 Construction		絞 線 徑 Diameter mm	抗張強度 Rated strength kN	單位重量 Linear density kg/km
	No	mm			
# 2 AWG	7	2.47	7.42	5.99	93
2/0 AWG	7	3.50	10.51	11.1	186
4/0 AWG	7	4.42	13.25	17.0	296
300 MCM	19	3.19	15.96	24.3	419
336.4 MCM	19	3.38	16.90	27.3	470
477 MCM	19	4.02	20.12	37.0	666
636 MCM	37	3.33	23.31	50.4	888
795 MCM	37	3.72	26.07	61.8	1111
954 MCM	37	4.08	28.55	72.6	1333
954 MCM	61	3.18	28.60	75.0	1333
1272 MCM	61	3.67	33.01	93.5	1777
1431 MCM	61	3.89	35.02	108	1999

光纖纜線

Optical Fiber Cable

項目Item	種類Category	束管型光纜 Loose tube Optical Fiber Cable		溝槽型光纜 Slot type Optical Fiber Cable
規格Type		6芯束或12芯束		
芯數 Core Numbers		6or 12Fiber Per Loose tube 6 – 216C		4 – 1000C
光纖及束管顏色（依順序） Color of Optical Fiber and Loose Tube		藍/黃/綠/紅/紫/白/棕/黑/橘/灰/粉紅/水藍 Blue/Yellow/Green/Red/Violet/White/Brown/Black/Orange/Gray/Rose/Aqua		藍/黃/綠/紅/紫 Blue/Yellow/Green/Red/Violet
光纖型式 Optical Fiber		單模 Singlemode Fiber	多模 Multimode Fiber	單模 Singlemode Fiber Ribbon
主要傳輸波長 Main transmission wavelength nm		全波段 Broad Wavelength region	850/1300	全波段 Broad Wavelength region
衰減值↓ Attenuation dB/km		0.4dB@1310nm 0.25dB @1550nm	3.0dB@850nm 1.0dB @1300nm	0.4dB@1310nm 0.25dB @1550nm

