



G•APEX

HEAT SHRINK TUBING AND ACCESSORIES

G•APEX

G•APEX

台灣雲林應用材料股份有限公司

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Taiwan Yun Lin Applied Materials Co., Ltd.



企業簡介 Company Profile

For over 20 years, G-APEX has been focused on research and development the new materials and products in the fields of heat shrink, cold shrink tubing, and tapes. To solve the requirement of quality, safety, cost reduction, and services for the market. Providing solutions of electrical insulation and sealing protection applications for different industries.

Production: 50 million meters of monthly production capabilities of heat shrinkable tubing, the strongest product supplying abilities.

Technology: 21 patents and professional R&D team.

Certification: ISO9001、UL、ROHS、REACH、ISO10993、ISO14001、IATF16949, providing a reliable quality guarantee.

Services: Mass storage of products and our service staff in Taiwan, Japan, Thailand, Vietnam, and China, providing the fastest ship out and instant services.

Under our team structure, we're confident to fulfill all your inquiries.

G-APEX 20年來長期致力在熱縮套管、冷縮套管、膠帶領域研究開發新材料及產品，解決市場對品質、安全性、成本降低及服務的需求，提供了不同行業電氣絕緣及密封保護應用解決方案。

生產：熱縮套管月產能5千萬米，提供強大的供貨能力。

技術：21項專利技術及專業的工程研發團隊。

認證：ISO9001、UL、ROHS、REACH、ISO10993、ISO14001、IATF16949提供可靠的品質保證。

服務：台灣、日本、泰國、越南、中國各地提供大量產品庫存倉儲及服務人員，提供最快速的發貨及服務。在整體的團隊架構下，我們很自信可以完成對您的需求所託。



目錄 CONTENTS

薄壁熱縮套管 THIN WALL HEAT SHRINK TUBING

- G5** 通用型熱縮套管
General purpose, flame retardant heat shrink tubing
- G5-CB** 超薄型熱縮套管
Ultra thin wall, flame retardant heat shrink tubing
- G1** 無阻燃型熱縮套管
Non flame retardant heat shrink tubing
- G5-3X** 高收縮倍率熱縮套管
High shrink ratio heat shrink tubing
- G5-135** 135°C 阻燃型熱縮套管
135°C Flame retardant heat shrink tubing
- G5-YG** 接地標示用黃綠熱縮套管
Yellow & Green striped heat shrink tubing
- GA** 耐磨型PE熱縮套管
Abrasion-resistant PE heat shrink tubing
- YLPET** PET熱縮套管
PET heat shrink tubing
- DR** 150°C 耐油熱縮套管
150° Diesel resistant elastomeric heat shrinkable tubing

含膠型熱縮套管 ADHESIVE-LINED HEAT SHRINK TUBING

- AIS** 雙壁含膠型熱縮套管
Dual wall heat shrink tubing
- AIS-ES** 車用線束含膠熱縮套管
Adhesive heat shrinkable tubing for automotive
- AECM** 迷你電線防水封帽
Miniature waterproof cable end cap
- ATM** 通用型中壁含膠熱縮套管
Medium wall heat shrink tubing
- ATM-FR** 通用型中壁阻燃含膠熱縮套管
Flame retardant medium wall heat shrink tubing
- AOS** 柔軟型中壁含膠熱縮套管
Flexible medium wall heat shrink tubing
- ABS** 防水端子用熱縮套管
Watertight tube for terminals and crimp splices
- ASM** 通用型厚壁含膠熱縮套管
Heavy wall heat shrink tubing
- ASM-6X** 六倍收縮厚壁熱縮套管
Heavy wall high shrink ratio heat shrink tubing

耐高溫熱縮套管 HIGH TEMPERATURE RESISTANT HEAT SHRINK TUBING

- HTK150** 柔軟型PVDF熱縮套管
Flexible PVDF heat shrinkable tubing
- KYNAR** 半硬型PVDF熱縮套管
Semi-rigid PVDF heat shrinkable tubing
- VITON** 氟橡膠熱縮套管
Fluoroelastomer heat shrinkable tubing
- FEP** 200°C FEP熱縮套管
200°C FEP heat shrinkable tubing
- PTFE** 260°C PTFE熱縮套管
260°C PTFE heat shrinkable tubing
- PFA** 260°C PFA熱縮套管
260°C PFA heat shrinkable tubing

醫療等級熱縮套管 MEDICAL-GRADE HEAT SHRINKABLE TUBING

- MTA** 醫療級半硬質PVDF熱縮套管
Medical grade semi-rigid PVDF heat shrinkable tubing
- MT2** 醫療級超薄型LDPE熱縮套管
Medical grade ultra thin wall LDPE heat shrinkable tubing
- MTC** 醫療級柔軟型PVDF熱縮套管
Medical grade flexible PVDF heat shrinkable tubing
- MTE** 醫療級LDPE熱縮套管
Medical grade LDPE heat shrinkable tubing
- MTF** 醫療級高柔軟性熱縮套管
Medical grade high flexibility heat shrinkable tubing

冷縮套管 COLD SHRINK TUBING

- ANC** 硅矽橡膠冷縮套管
Cold shrink silicone rubber sleeve
- GNC** 硅矽橡膠冷縮套管
Cold shrink silicone rubber sleeve
- NS7** 硅矽橡膠握把冷縮套管
Cold shrink silicone rubber sleeve for handle
- NS8** EPDM橡膠握把保護冷縮套管
Cold shrink EPDM rubber sleeve for handle
- EEC** EPDM橡膠冷縮封帽
Cold shrink EPDM rubber end cap
- ENC** EPDM 橡膠冷縮套管
Cold shrink EPDM rubber sleeve
- DNC** 硅矽橡膠雙層冷縮套管
Dual layer cold shrink silicone rubber sleeve

編織網管 BRAIDED SLEEVING

- BS5000** 編織熱縮套管
Fabric heat shrinkable tubing
- BS1000** PET 半剛性捲式編織管
PET semi-rigid wrappable split braided sleeving
- BS3000** 汽車線束用捲式編織管
Wrap around braided sleeving for automotive wire assembly
- BSPET** PET 編織擴充管
PET expandable braided sleeving

電線連接用熱縮套管 ELECTRICAL INTERCONNECT HEAT SHRINKABLE TUBING

- GAST-R** 125°C 防水焊錫環熱縮中接管
125°C Solder sleeve wire splices
- GAST-B** 125°C 防水焊錫環熱縮中接管
125°C Solder sleeve wire splices
- GAST-RS** 125°C 防水焊錫環熱縮中接管
125°C Solder sleeve wire splices
- CRIMP** 防水熱縮中接管
Waterproof heat shrinkable crimp splices
- GAST-E** 防水焊錫環熱縮封帽
Solder grip closed end connector splices

高壓絕緣熱縮套管 HIGH VOLTAGE INSULATION HEAT SHRINK TUBING

- HB1** 高壓母排熱縮套管 (耐壓3.6kV)
Busbar insulating heat shrink tubing (Withstand voltage up to 3.6kV)
- HB2** 高壓母排熱縮套管 (耐壓24kV)
Busbar insulating heat shrink tubing (Withstand voltage up to 24kV)
- HB3** 高壓母排熱縮套管 (耐壓36kV)
Busbar insulating heat shrink tubing (Withstand voltage up to 36kV)

熱縮模塑套件 MOULDED SHAPES

- BOOT** 模縮套
Molded parts
- AEC** 電纜防水熱縮封帽
Heat shrinkable cable end cap

光纖用熱縮套管 FIBER OPTICAL HEAT SHRINKABLE TUBING

- ADW** 光纖接續盒專用防水熱縮套管
Heat shrinkable tubing for fiber optic splice closure
- FOSP** 光纖保護套管
Heat shrinkable fiber optic splice protector
- FOSP-K** 高溫光纖保護套管
High-temperature optical fiber protection sleeve

膠帶 TAPE

- WT800** 自融性防水膠帶
Rubber mastic tape
- WT200** 自融性防水膠帶
Rubber mastic tape
- WT300** 自融性絕緣填縫膠膏帶
Self-fusing insulation caulking mastic tape
- HBT** 耐電壓矽膠膠帶 (耐壓15~24kV)
High voltage silicone busbar insulation tape (Withstand voltage up to 15~24kV)

熱縮套管組合包 ASSORTMENT KIT

- K1-101** 熱縮套管組裝盒
Heat shrinkable tubing kit
- K1-102** 熱縮套管組裝盒
Heat shrinkable tubing kit
- K1-201** 熱縮套管組裝盒
Heat shrinkable tubing kit
- K1-301** 熱縮套管組裝盒
Heat shrinkable tubing kit
- K2-101** 熱縮套管組裝盒
Heat shrinkable tubing kit
- K2-102** 熱縮套管組裝盒
Heat shrinkable tubing kit
- K2-103** 熱縮套管組裝盒
Heat shrinkable tubing kit
- K4-101** 熱縮套管組裝盒
Heat shrinkable tubing kit
- K5-101** 熱縮套管組裝盒
Heat shrinkable tubing kit
- K6-101** 熱縮套管組裝盒
Heat shrinkable tubing kit
- K7-101** 熱縮套管組裝盒
Heat shrinkable tubing kit
- K7-201** 熱縮套管組裝盒
Heat shrinkable tubing kit
- B2** 熱縮套管捲式包 (紙盒)
Tube and sleeve - mini box
- R2** 熱縮套管圓形泡殼包裝
Tube and sleeve - blister pack
- GR** 熱縮套管捲式包裝
Heat shrinkable tubing pack - mini spool pack

號碼標識系統 MARKING SYSTEMS

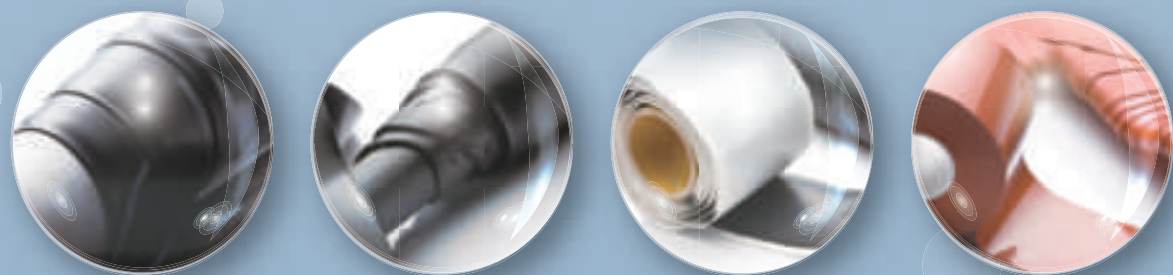
- 135°C TMS** 軌道式號碼標示印字熱縮套管
Heat shrink markers
- 125°C TMS** 軌道式號碼標示印字熱縮套管
Heat shrink markers
- 135°C CTMS** 捲式號碼標示印字熱縮套管
Heat shrink markers
- 125°C CTMS** 捲式號碼標示印字熱縮套管
Heat shrink markers
- MP** 貼紙簿
Pocket pack marker book
- MO** 號碼標誌器
Snap-on wire markers
- MH** PVC熱縮電線標示號碼圈
PVC Heat shrinkable wire marking number ring

工具 TOOL

- GHG** 微型熱風槍
Gas heat gun
- BSC** 熱裁切機
Hot knife device

TAPE

膠帶



TAPE

TAPE

WT800

Rubber mastic tape

自融性防水膠帶



Product Dimensions
產品規格

● 應用 Applications

由彈性絕緣材料與防水密封膠組成，較WT200具有低成本經濟效益，適用於電力電纜接頭、通訊電纜接頭的密封防水及高低壓匯流排接點的絕緣防蝕保護。

Composed of elastic insulating material and waterproof sealant, and has lower cost and economic benefit compared to WT200. It is suitable for sealing and waterproofing the joints of power cable and communication cable, as well as the insulation and corrosion protection of high and low voltage busbars contacts.

● 操作溫度範圍 Operating temperature range

- Continuous operating temperature: -20°C~90°C
- Emergency overload temperature: 130°C

- 連續使用溫度：-20°C~90°C
- 緊急過載溫度：130°C

● 特性 Characteristics

- 彈性材質易施工
- 抗紫外線
- 耐磨擦、酸鹼
- 防水
- Flexible material, easy construction
- Anti-ultraviolet
- Abrasion, acid, and alkali resistant
- Waterproof

Part Number	Size 尺寸		
產品型號	Thickness (Nominal Size) (mm) 厚度 (公稱尺寸)	Width (mm) 寬度	Standard Length (Meter) 標準長度 (米)
WT800	1.65	50	3

Other sizes can be customized on requested.

其他尺寸可指定製作。

● 使用方法 Operating instruction

適當力量拉伸膠帶，1/2處重疊纏繞，纏繞時同時撕開隔離紙，膠帶末端用力按壓，使膠帶黏接至電纜外皮。

Stretch the tape with proper strength by 1/2 overlap winding, tear the quarantine paper at the same time when winding, press hard on the end of the tape to let the tape is adhered to the cable sheath.

Technical Data

Property	Test Method	Typical Value
Tensile strength	ASTM D412	≥2Mpa
Elongation at break	ASTM D412	≥1000%
Dielectric strength	ASTM D4325	≥20kV/mm
Volume resistivity	ASTM D991	≥10 ¹⁴ Ω·cm

Standard color: black
標準顏色：黑色



TAPE

WT200

Rubber mastic tape

自融性防水膠帶



Product Dimensions
產品規格

● 應用 Applications

外層為輻照交聯的彈性橡膠、內層為防水密封膠。高彈性外層及高粘度膠層的特性，適用嚴峻戶外環境的鋼管防腐蝕、電纜外皮修護及電纜接頭密封等應用。

The outer layer is made of radiation cross-linked elastic rubber and the inner layer is made of waterproof sealants. With the characteristics of the high elastic outer layer and high adhesion adhesive layer, it is suitable for applications of steel pipe anti-corrosion, cable sheath repair, and cable joint sealing in rigorous outdoor environments.

● 操作溫度範圍 Operating temperature range

- Continuous operating temperature: -20°C~90°C
- Emergency overload temperature: 130°C

- 連續使用溫度：-20°C~90°C
- 緊急過載溫度：130°C

● 特性 Characteristics

- 彈性外層能緊覆被包覆物
 - 抗紫外線
 - 耐磨擦、耐酸鹼
 - 防水
 - 施工指示標誌
-
- The elastic outer layer bonds to the covered object tightly.
 - UV resistance
 - Resistance to abrasion, acids and alkalis
 - Waterproof
 - Construction indicating sign

Part Number	Size 尺寸		
產品型號	Thickness (Nominal Size) (mm) 厚度 (公稱尺寸)	Width (mm) 寬度	Standard Length (Meter) 標準長度 (米)
WT200-18	1.8	50	3

● 使用方法 Operating instruction

適當力量拉伸膠帶，1/2處重疊纏繞，纏繞時同時撕開離型紙，膠帶末端用力按壓，使膠帶黏接至電纜外皮。

Stretch the tape with proper strength, overlap winding at 1/2 position, tear off the release paper at the same time when winding, and press hard on the end of the tape to make the tape adhere to the cable sheath.

Technical Data

Property	Test Method	Typical Value
Tensile strength	ASTM D412	≥6MPa
Elongation at break	ASTM D412	≥800%
Dielectric strength	ASTM D4325	≥20kV/mm
Volume resistivity	ASTM D991	≥10 ¹⁴ Ω·cm

Standard color: black
標準顏色：黑色



TAPE

WT300

Self-fusing insulation caulking mastic tape

自融性絕緣填縫膠膏帶



Product Dimensions
產品規格

Part Number	Size 尺寸		
產品型號	Thickness (Nominal Size) (mm) 厚度 (公稱尺寸)	Width (mm) 寬度	Standard Length (Meter) 標準長度 (米)
WT-300	2	30	1

Technical Data

Property	Test Method	Typical Value
Dielectric strength	ASTM D2671	≥15kV/mm
Volume resistivity	ASTM D991	≥10 ¹⁴ Ω · cm

Standard color : black
標準顏色 : 黑色



● 應用 Applications

WT300是柔軟、彈性的橡膠材質膠膏帶，良好的絕緣性能搭配PVC膠帶可以應用於高壓電纜接頭或匯流排的分歧絕緣防水保護，優異的適形性可以在不規則外形上做絕緣防水絕緣運用。

WT300 is a flexible and elastic rubber material mastic tape, great insulation performance used with the PVC tape can apply to the high voltage cable joints or the insulation and waterproof protection for the branch of the busbar. Good plasticity can be used for insulation and waterproofing on irregular shapes.

● 操作溫度範圍 Operating temperature range

- Continuous operating temperature: -40°C~90°C
- 連續使用溫度：-40°C~90°C

● 特性 Characteristics

- 優異的防水密封
- 耐候、抗老化
- 柔軟、有彈性、容易塑形
- Excellent waterproof seal
- Weather resistance and anti-aging
- Flexible, elastic and easy to shape

TAPE

HBT

**High voltage silicone busbar insulation tape
(Withstand voltage up to 15~24kV)****耐電壓矽膠膠帶 (耐壓15~24kV)**Product Dimensions
產品規格

● 應用 Applications

產品以輻照交聯硅橡膠製成，具有優異的電氣、化學及物理性能。適用於開關設備具有任意形狀的電纜接頭或母排的絕緣保護，易於在不允許拆卸及禁用火源的環境操作。

The product is made of radiation cross-linked silicone rubber, which has excellent electrical, chemical and physical properties. It is suitable for insulation protection of cable joints or busbars with any shape in switchgear. It is easy to operate in environments where disassembly is not allowed and fire sources are prohibited.

● 操作溫度範圍 Operating temperature range

- Continuous operating temperature: -60°C~200°C
- 連續使用溫度：-60°C~200°C

● 特性 Characteristics

- 具有極佳的自融性
- 耐高溫、抗紫外線、優異的絕緣性能
- 適合各種溫度環境施工，產品阻燃、防電暈、防電弧
- 單層耐15kV，雙層可提供24kV電壓保護
- Excellent self-fusing
- High temperature resistance, anti-UV and excellent insulation property
- Suitable for construction in various temperature environments, the product is flame retardant, anti-corona and anti-arc.
- Single layer withstands 15kV and double layers can provide voltage protection up to 24 kV.

Part Number	Size 尺寸		
產品型號	Thickness (Nominal Size) (mm) 厚度 (公稱尺寸)	Width (mm) 寬度	Standard Length (Meter) 標準長度 (米)
HBT	0.8	50	5

● 使用方法 Operating instruction

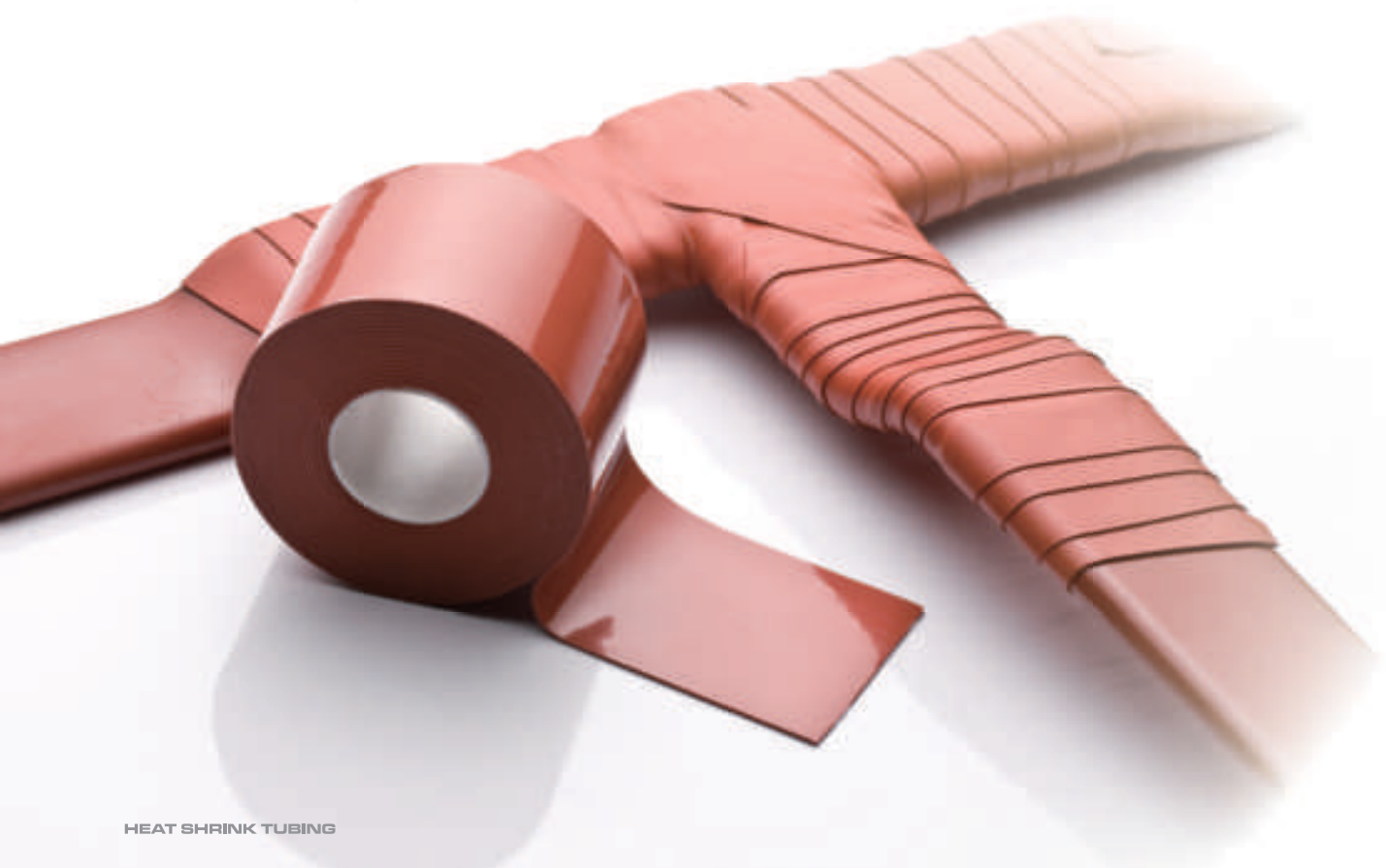
適當力量拉伸膠帶，1/2處重疊纏繞。

Stretch the tape with proper strength, overlap winding at 1/2 position.

Technical Data

Property	Test Method	Typical Value
Tensile strength	ASTM D412	≥3.5MPa
Elongation at break	ASTM D412	≥1000%
Dielectric strength	ASTM D4325	≥28kV/mm
Volume resistivity	ASTM D991	≥10 ¹⁴ Ω · cm

Standard color: red
標準顏色：紅色



Cross Reference Number For G-APEX Heat Shrinkable Tubing

	Raychem	SUMITUBE	DSG-Canusa	LG	3M	Alpha
G1	CGPE-105	C	CPX 51	GSHS-1605		
G5	VERSAFIT V2	F32. F2Z	CPX 876	GSHS-1625	CP-221	FIT221V
G5-CB	VERSAFIT V4	F34. F4Z	DERAY ITW	GSHS-1625T		
GA		A				
G5-135	RNF-100	A2. B2	CPX-100	GSHS-1635F	FP-301	FIT221
G5-YG	DCPT 2:1	B2(YG)	CPX 201	GSHS-1635F-YG	GYS	FIT260
G5135-3X	RNF-3000	B2(3X)	CPX 300	GSHS-3635	SFTW-203	FIT321V
AIS	ATUM. DWP-125	W3B2. W3F2	CPA 300	GSHS-3635W	EPS-300	FIT321
AIS-ES	ES-2000	SA2F	SPLICEMELT125	GSHS-4635WS	EPS-4000	FIT421
ACS200	RBK-ILS125					
ATM	MWTM. SST-M	SCD. SCM2	CFM	PMWT	MDT. IMCSN	
ASM-6X	HRHT	SCH	CFHR			FIT621
ANF		IRRAX SCM2			IMCS	
ASM	WCSM.SST		CFW/RHW	PHWT	ITCSN	FIT700
ABS		W3D		GSHS-1625BS		
DR	DR-25	R120	DERAY V25	DRET	PSTH	FIT601
HTK150	RT-375	K2	KYF190	GSHS-1650F	MFP	
KYNAR	RW-175. KYNAR	K	KY175	GSHS-1675	KYNAR	FIT350
VITON	VITON. RW200	FE3. KH200	VT220		VTN200	FIT650
FEP	FEP	FEP			FEP	FIT400
PTFE	TFE	TFE	CTFE250		TFE	FIT500
MTA	MT1000					
MT2/MTE	MT2000					
MTC	MT3000					
MTF	MT-5000/MT5500					
TMS	TMS-SCE					FIT-PRINT
CTMS	TTMS					
HB1	LVIT			LG-BBLV		
HB2	BPTM	SBI300	CBTM	LG-BBHV	BBI	
HB3	BBIT	SBI350	CBTH	LG-BBHT	BBI	
AEC	SSC. ESC		CCAP		ICEC. SKE	FITCAP
AECM	ES CAPS	SA3 CAP	SPLICEMELT CAP 125			
BOOT	Molded parts					BOOTS

Cross Reference Number For G-APEX Heat Shrinkable Tubing

[illegible]

METRIC/INCH CONVERSION CHART

Inches英吋	mm公釐	Inches英吋	mm公釐
1/64	0.40	1/2	12.70
1/32	0.79	33/64	13.10
3/64	1.19	17/32	13.49
1/16	1.59	35/64	13.89
5/64	1.98	9/16	14.29
3/32	2.38	37/64	14.68
7/64	2.78	19/32	15.08
1/8	3.18	39/64	15.48
9/64	3.57	5/8	15.88
5/32	3.97	41/64	16.27
11/64	4.37	21/32	16.67
3/16	4.76	11/16	17.46
13/64	5.16	23/32	18.26
7/32	5.56	3/4	19.05
15/64	5.95	25/32	19.84
1/4	6.35	13/16	20.64
17/64	6.75	7/8	22.23
9/32	7.14	29/32	23.02
19/64	7.54	15/16	23.81
5/16	7.94	61/64	24.21
21/64	8.33	31/32	24.61
11/32	8.73	63/64	25.00
23/64	9.13	1	25.40
3/8	9.53	1-1/4	32.00
25/64	9.92	1-1/2	38.10
13/32	10.32	1-3/4	44.50
27/64	10.72	2	50.80
7/16	11.11	2-1/2	63.50
29/64	11.51	3	76.20
15/32	11.91	3-1/2	88.90
31/64	12.30	4	101.60

Notes