



G·APEX

HEAT SHRINK TUBING AND ACCESSORIES

G·APEX

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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°C 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 矽矽橡膠冷縮套管**
Cold shrink silicone rubber sleeve
- GNC 矽矽橡膠冷縮套管**
Cold shrink silicone rubber sleeve
- NS7 矽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 矽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

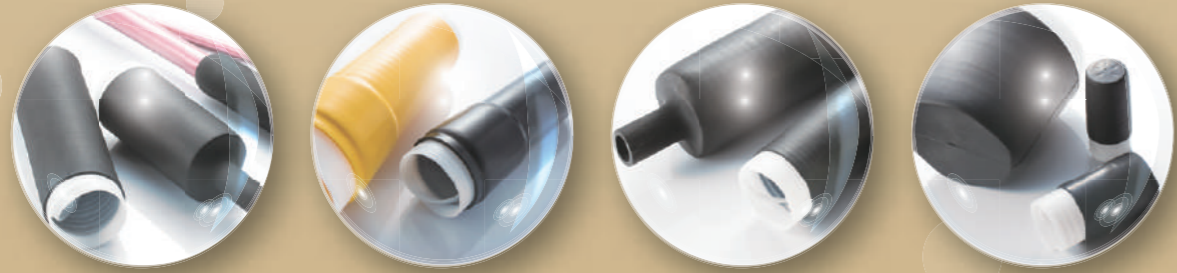
- 135°C TMS 軌道式號碼標示印字熱縮套管**
Heat shrink markers
- 125°C TMS 軌道式號碼標示印字熱縮套管**
Heat shrink markers
- 135°C CTMS 捲式號碼標示印字熱縮套管**
Heat shrink markers
- 125°C CTMS 捲式號碼標示印字熱縮套管**
Heat shrink markers
- MP 貼紙簿**
Pocket pack marker book
- MO 號碼標誌器**
Snap-on wire markers
- MH PVC熱縮電線標示號碼圈**
PVC Heat shrinkable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

工具 TOOL

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



COLD SHRINK TUBING
冷縮套管



COLD SHRINK TUBING

COLD SHRINK TUBING



Dual layer cold shrink silicone rubber sleeve
矽矽橡膠雙層冷縮套管



Product Dimensions
產品規格

Part Number	I.D. as supplied	I.D. after recovered	Length after recovered	Application Range
產品型號	收縮前內徑 (mm)	收縮後內徑 (mm)	收縮後長度 (mm)	適用直徑 (mm)
DNC3009-115BK	30±1	8.5±2	115+5/-1	10~26
DNC4010-140BK	40±1	9.5±2	140+5/-1	12~36

Technical Data

Property	Standard	Test Method	Typical Value
Tensile strength	≥7MPa	ASTM D412	≥9MPa
Elongation at break	≥800%	ASTM D412	≥1000%
Tear Strength	≥25KN/m	ASTM D412	≥35kN/m
Low Temperature Test	-40°C/96hr	IPX8/12hr	Pass
High Temperature Test	70°C/96hr	IPX8/12hr	Pass
Temperature Cycle Test	-40°C~70°C/48hr	IPX8/12hr	Pass

Standard colors : black 、 yellow
 標準顏色：黑、黃



● 應用 Applications

DNC採高耐候性Silicone橡膠材料製成，透過內置橡膠圈雙層的設計，提升產品質量及施工品質，廣泛應用於通訊基地的同軸電纜、跳線、DIN頭、連接器、N型接頭等各類型電纜的接頭保護。

簡易輕便的操作方式能在不允許火源及狹窄環境下無須使用工具快速的施工，內層新型膠圈結構，可改善傳統膠泥硬化的問題，讓防水絕緣密封的保護能力更加可靠持久。

DNC is made of highly weather-resistant Silicone rubber material. The product and construction quality are improved through the dual-layer design of the built-in rubber ring. It is widely used in various types of cable joint protection for coaxial cables, jumpers, DIN connectors, connectors, N-type connectors, etc. of communication base stations.

Simple and convenient operation methods can be rapid construction without using tools in a narrow environment that does not allow fire sources. The new adhesion ring structure of the inner layer can improve the hardening issues of traditional mastic, and make the protection ability of waterproof insulation and sealing more reliable and durable.

● 特性 Characteristics

- 抗紫外線、耐酸鹼
- 優異的抗機械、電氣、防水性能
- 無需火源加熱
- 大幅縮短作業時間
- 長時間的產品使用壽命
- 高倍收縮比
- 符合RoHS
- Anti-Ultraviolet, resistant to Acid and Alkali.
- Excellent mechanical, electrical and waterproof property.
- None heating tools requires.
- Substantially reducing operating time.
- Long lifetime product.
- High ratio shrinkage.
- RoHS compliant.

● 操作溫度範圍 Operating temperature range

- Continuous operating temperature : -40°C~90°C
- Storage temperature: -40°C~50°C
- Storage life recommended: 1 Year
- 連續使用溫度：-40°C~90°C
- 儲存環境：-40°C~50°C
- 建議儲存期限：1年



COLD SHRINK TUBING

ANC

Cold shrink silicone rubber sleeve 矽矽橡膠冷縮套管



Product Dimensions (With Mastic)
產品規格 (管內含膠泥)

● 應用 Applications

使用高耐候性Silicone橡膠擴張於支撐管上，在電纜線接頭需要絕緣密封保護處將支撐管拉開，Silicone橡膠管即收縮緊密包覆於接頭處，能在不允許火源及狹窄環境下無須使用工具快速的施工，應用於通訊基站電纜接頭處的密封保護。

High weather resistance Silicone rubber sleeve expanded and assembled onto a spiral type removable plastic supporting core. Remove the supporting core after sleeve positioned to the cable connector that requires insulation seal protection, Silicone rubber sleeve will quick and tightly shrink onto the joints. Allows to quick construction without using open fire and tools as well as a narrow space.

Applied to the sealant protection for cable connectors of communication base station.

● 操作溫度範圍 Operating temperature range

- Continuous operating temperature: -40°C~90°C
- Storage life recommended: 1 Year

- 連續使用溫度：-40°C~90°C
- 建議儲存期限：1年

● 特性 Characteristics

- 抗紫外線、耐酸鹼
- 優異的抗機械、電氣、防水性能
- 無需火源加熱
- 大幅縮短作業時間
- 長時間的產品使用壽命
- 高倍收縮比
- 符合RoHS
- Anti-Ultraviolet, resistant to Acid and Alkali.
- Excellent mechanical, electrical and waterproof property.
- None heating tools requires.
- Substantially reducing operating time.
- Long lifetime product.
- High ratio shrinkage.
- RoHS compliant.

Part Number	I.D. as supplied	I.D. after recovered	Length after recovered	Application Range
產品型號	收縮前內徑 (mm)	收縮後內徑 (mm)	收縮後長度 (mm)	適用直徑 (mm)
ANC2808-110GY	28±1	8.5±2	110+5/-1	10~26
ANC3810-140GY	38±1	10±2	140+5/-1	12~36

Technical Data

Property	Test Method	Typical Value
Hardness	ASTM D2240	Shore A26
Tensile strength	ASTM D412	≥7MPa
Elongation at break	ASTM D412	≥840%
Tear Strength	ASTM D412	≥35kN/m
Waterproof and dustproof Test	IP68	Pass
Ultraviolet Exposing Test	ASTM G154	Pass
Salt Spray Testing	ASTM B117	Pass
Diameter retraction shrinkage	180 days/80% and more	Pass

Standard color: Gray
標準顏色：灰色



COLD SHRINK TUBING

GNC

Cold shrink silicone rubber sleeve
矽矽橡膠冷縮套管Product Dimensions (Without Mastic)
產品規格 (管內不含膠泥)

● 應用 Applications

使用高耐候性Silicone橡膠擴張於支撐管上，在電纜線接頭需要絕緣密封保護處將支撐管拉開，Silicone橡膠管即收縮緊密包覆於接頭處，能在不允許火源及狹窄環境下無須使用工具快速的施工，應用於通訊基站電纜接頭處的密封保護。

High weather resistance Silicone rubber sleeve expanded and assembled onto a spiral type removable plastic supporting core. Remove the supporting core after sleeve positioned to the cable connector that requires insulation seal protection, Silicone rubber sleeve will quick and tightly shrink onto the joints. Allows to quick construction without using open fire and tools as well as a narrow space.

Applied to the sealant protection for cable connectors of communication base station.

● 操作溫度範圍 Operating temperature range

- Continuous operating temperature :-55°C~200°C
- Storage life recommended: 1 Year

- 連續使用溫度：-55°C~200°C
- 建議儲存期限：1年

● 特性 Characteristics

- 抗紫外線、耐酸鹼
- 優異的抗機械、電氣性能
- 無需火源加熱
- 大幅縮短作業時間
- 長時間的產品使用壽命
- 高倍收縮比
- 符合RoHS
- Anti-Ultraviolet, resistant to Acid and Alkali.
- Excellent mechanical and electrical property.
- None heating tools requires.
- Substantially reducing operating time.
- Long lifetime product.
- High ratio shrinkage.
- RoHS compliant.

Part Number	I.D. as supplied	I.D. after recovered	Length after recovered	Application Range
產品型號	收縮前內徑 (mm)	收縮後內徑 (mm)	收縮後長度 (mm)	適用直徑 (mm)
GNC2506-130BK	25	6	130+5/-1	7.3~21
GNC2808-130BK	28	8	130+5/-1	11.9~31
GNC3008-130BK	30	8	130+5/-1	11.9~31
GNC3509-130BK	35	9	130+5/-1	11.9~31
GNC4010-130BK	40	10	130+5/-1	13.5~39
GNC4510-130BK	45	10	130+5/-1	15~39

其他尺寸、長度可依客戶需求另行訂製(收縮前內徑範圍：15~130mm、長度範圍：60~780mm)
Other sizes and lengths can be customized by customer requirement (range of inner diameter as supplied is: 15~130mm, range of length is: 60~780mm).

Technical Data

Property	Test Method	Typical Value
Hardness	ASTM D2240	Shore A26
Tensile strength	ASTM D412	≥7MPa
Elongation at break	ASTM D412	≥840%
Tear Strength	ASTM D412	≥35kN/m
Ultraviolet Exposing Test	ASTM G154	Pass
Salt Spray Testing	ASTM B117	Pass
Diameter retraction shrinkage	180 days/80% and more	Pass

Standard colors: Black, Gray
標準顏色：黑、灰色



COLD SHRINK TUBING

NS7

Cold shrink silicone rubber sleeve for handle**矽矽橡膠握把冷縮套管**Product Dimensions
產品規格

Part Number	I.D. as supplied	I.D. after recovered	Length after recovered	Application Range
產品型號	收縮前內徑(mm)	收縮後內徑(mm)	收縮後長度(mm)	適用直徑 (mm)
NS7-42-170	42±1	16±1	170+5/-1	18~40

Technical Data

Property	Specification Requirement	Test Method	Typical Value
Ultraviolet Exposing Test	UVA340/1000h	ASTM G154	PASS
Tensile strength	≥7 MPa	ASTM D412	12MPa
Elongation at break	≥850%	ASTM D412	≥920%
Diameter retraction shrinkage	80% and more	180 Days	PASS

Standard colors: black, blue
Special sizes and cut pieces are available on request.

標準顏色：黑、藍
其他尺寸、長度、可依客戶需求另行訂製



● 應用 Applications

使用高耐候性Silicone橡膠擴張於支撐管上，適用於釣竿、球拍、划槳、運動用品及手工具等產品握把上。

替代EVA發泡及PU纏繞帶的傳統方式，避免鬆脫的可能，在需要絕緣密封保護處將支撐管拉開，Silicone橡膠管即收縮緊密包覆於握把處，在無火源的環境無須任何工具可快速完成密封包覆。

NS7具有良好的彈性與質感，表面紋路可以增加摩擦來達到防滑的效能，高性能的絕緣材料可以預防意外電擊，增強戶外使用者的安全性。

Using high weather resistance Silicone rubber sleeve expanded and assembled onto a spiral type removable plastic supporting core. Suitable applied to various handles of fishing rods, rackets, paddles, athletic equipment and industrial hand tools.

Replace the traditional way of EVA foaming and PU wrapping tape to avoid the possibility of loosening. Remove the supporting core at position that requires insulation and seal protection, the organic silicone rubber sleeve will quick and tightly shrink onto the handles. Allows to quick accomplishing the seal protection without using open fire and tools.

NS7 has an outstanding elasticity and texture, the grain on surface can increase the friction to achieve the anti-slip performance. The high-efficiency insulating material can enhance the safety of outdoor user to prevent accidently electric shock.

● 特性 Characteristics

- 優異的耐化學、耐紫外線性能
 - 高彈性良好的防滑吸震性能
 - 高絕緣性能，避免雷擊可能
 - 無需火源加熱，快速收縮
 - 符合RoHS標準
- Excellent chemical withstand and UV resistance
 - High elastic and non-slip shock absorption property
 - High insulation performance, avoiding lightning strikes
 - Non fire source heating required, fast shrinkage
 - RoHS compliant

● 操作溫度範圍 Operating temperature range

- Continuous operating temperature: -40°C~200°C
- Storage temperature: -40°C~50°C

- 連續使用溫度：-40°C~200°C
- 儲存環境：-40°C~50°C

- Patent No: M586177 專利字號：M586177



COLD SHRINK TUBING



Cold shrink EPDM rubber end cap EPDM橡膠冷縮封帽



Product Dimensions 產品規格

Part Number	I.D. as supplied	Length after fully recovered	Use range (O.D.)
產品型號	收縮前內徑 (mm)	完全收縮後長度 (mm)	使用範圍 (mm)
EEC-1	25	60±1	11.6~20.9
EEC-2	35	75±1	15.9~30.1
EEC-3	55	82±1	26~49.2
EEC-4	90	100±1	45.5~84.3

Technical Data

Property	Test Method	Typical Value
Hardness	ASTM D 2240	Shore A46
Tensile strength	ASTM D 412	9.8MPa
Elongation at break	ASTM D 412	≥720%
Tear Strength	ASTM D 624	27kN/m
Fungus Resistance	ASTM G 21	No growth
	28 days exposure	
Water absorption	24hrs in water at 90°C	Wt Gain 1.3%

Standard color: Black
標準顏色：黑



● 應用 Applications

使用高耐候性EPDM橡膠材料製成，將之擴張於支撐管上，廣泛適用在各種類型的電纜端頭需要絕緣密封保護處，操作時將支撐管拉開，EPDM橡膠封帽即收縮緊密包覆於電纜端頭處，能在不允許火源及狹窄環境下無須使用工具快速的施工，形成可靠持久的絕緣密封保護。

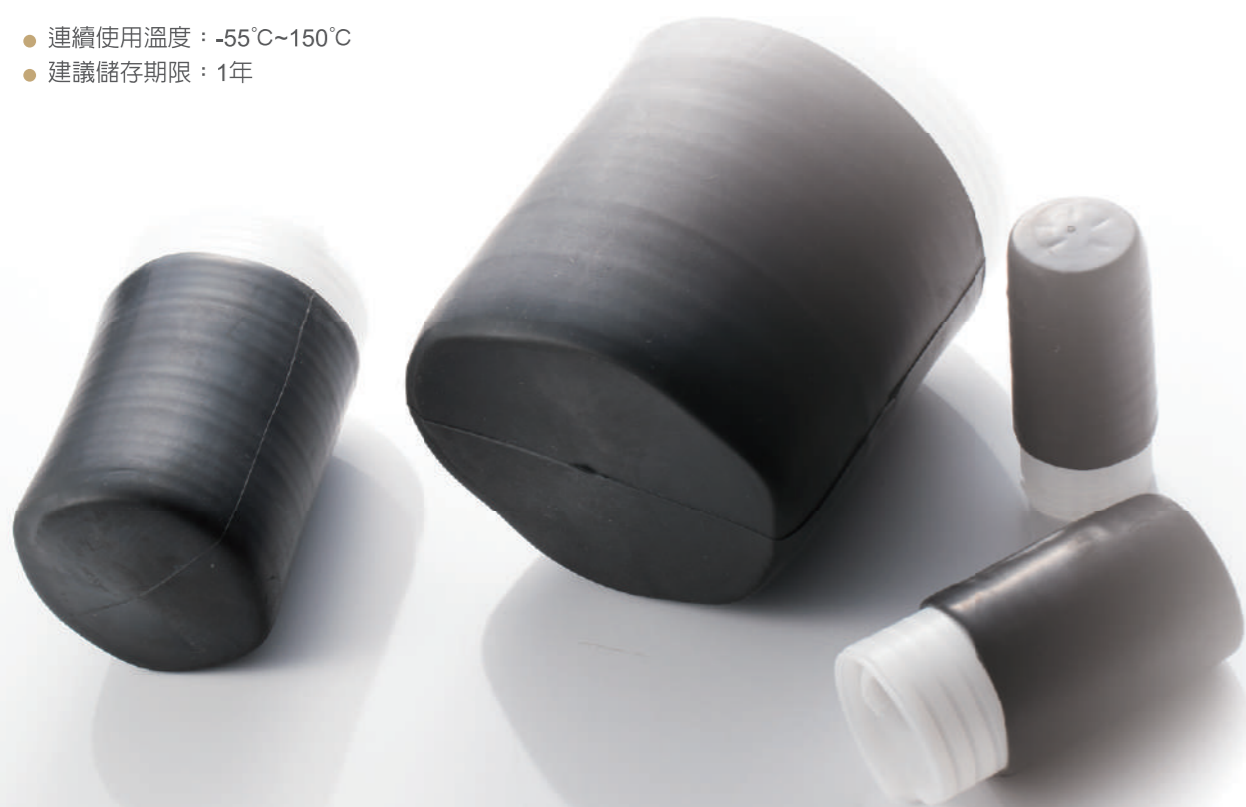
EEC is made of the high weather resistance EPDM rubber material and expanded onto a spiral type removable plastic supporting core. It is widely used in various types of cable ends where insulation and sealing protection required. Remove the supporting core while operating, EPDM Rubber End Cap will tightly shrink onto the cable ends. Allows to quick construction without using open fire and tools, forms reliable and long-lasting insulation and sealing protection.

● 特性 Characteristics

- 抗紫外線、耐酸鹼
- 優異的抗機械、電氣性能
- 無需火源加熱
- 大幅縮短作業時間
- 長時間的產品使用壽命
- 符合RoHS
- Anti-Ultraviolet, resistant to Acid and Alkali .
- Excellent mechanical and electrical property.
- None heating tools requires.
- Substantially reducing operating time.
- Long lifetime product.
- RoHS compliant.

● 操作溫度範圍 Operating temperature range

- Continuous operating temperature : -55°C~150°C
- Storage life recommended: 1 Year
- 連續使用溫度：-55°C~150°C
- 建議儲存期限：1年



COLD SHRINK TUBING



Cold shrink EPDM rubber sleeve EPDM橡膠冷縮套管



Product Dimensions 產品規格

● 應用 Applications

使用高耐候性EPDM橡膠擴張於支撐管上，在電纜線接頭需要絕緣密封保護處將支撐管拉開，EPDM橡膠管即收縮緊密包覆於接頭處，能在不允許火源及狹窄環境下無須使用工具快速的施工，應用額定電壓1kV以下架空埋設電力電纜接續及通訊基站電纜接頭處的密封保護。

High weather resistance EPDM rubber sleeve expanded and assembled onto a spiral type removable plastic supporting core. Remove the supporting core after sleeve positioned to the cable connector that requires insulation seal protection, EPDM rubber sleeve will quick and tightly shrink onto the joints. Allows to quick construction without using open fire and tools as well as a narrow space.

Applied to seal protection of overhead, buried power cable connection and communication base station cable joints with rated voltage under 1kV.

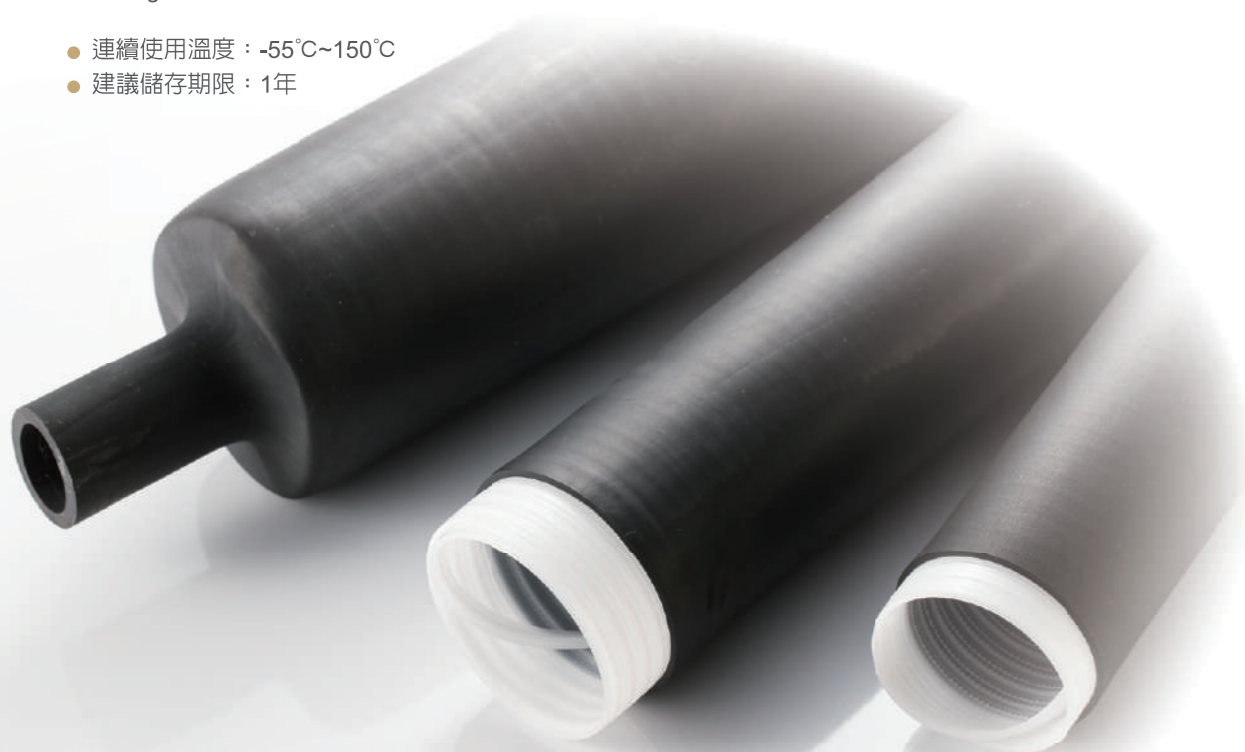
● 操作溫度範圍 Operating temperature range

- Continuous operating temperature: -55°C~150°C
- Storage life recommended: 1 Year

- 連續使用溫度：-55°C~150°C
- 建議儲存期限：1年

● 特性 Characteristics

- 抗紫外線、耐酸鹼
- 優異的抗機械、電氣性能
- 無需火源加熱
- 大幅縮短作業時間
- 長時間的產品使用壽命
- 高倍收縮比
- 符合RoHS
- Anti-Ultraviolet, resistant to Acid and Alkali.
- Excellent mechanical and electrical property.
- None heating tools requires.
- Substantially reducing operating time.
- Long lifetime product.
- High ratio shrinkage.
- RoHS compliant.



Part Number	I.D. as supplied(mm)(min)	I.D. after recovered(mm)(max)	Length after recovered
產品型號	收縮前內徑(最小)	收縮後內徑(最大)	收縮後長度(mm)
ENC2110-205	21	10.2	205+5/-1
ENC3014-229	30	13.9	229+5/-1
ENC3014-279	30	13.9	279+5/-1
ENC3617-305	36	16.8	305+5/-1
ENC4924-152	49	24	152+5/-1
ENC4924-305	49	24	305+5/-1
ENC4924-457	49	24	457+5/-1
ENC7032-229	70	32.2	229+5/-1
ENC7032-457	70	32.2	457+5/-1

其他尺寸、長度可依客戶需求另行訂製(收縮前內徑範圍：15~130mm、長度範圍：60~780mm)
Other sizes and lengths can be customized by customer requirement (range of inner diameter as supplied is: 15~130mm, range of length is: 60~780mm).

Technical Data

Property	Test Method	Typical Value
Hardness	ASTM D2240	Shore A46
Tensile strength	ASTM D412	7.5Mpa
Elongation at break	ASTM D412	≥670%
water absorption	24hrs in water at 90°C	Wt Gain 1.3%
Dielectric Strength	ASTM D149	8 kV/mm

Standard color: Black
標準顏色：黑



