



Kold-N-Klose®

The Permanent Splice and Sheath Repair System

- Cost Effective
- Quick and Easy
- Safe and Torch-Free

Thomas&Betts

Kold-N-Klose® The Complete, Proven, and Totally Reliable System

Thoroughly tested and evaluated to fulfill the needs of the Telecommunications Industry, Kold-N-Klose System components can be used in configurations to serve specific needs including:

- Simple sheath repair of most lengths and diameters
- Encapsulation of buried or aerial splices
- For use on filled or aircore, plastic or lead and pressurized cable



Kold-N-Klose® The Cost-Effective, Safe and Torch-free System

AT&T and most major Regional Bell Operating Companies (RBOC's) have approved the Kold-N-Klose System from Thomas & Betts and enjoy the benefits of its use.

- Craft friendly
- Totally mechanical
- No special tools required
- Can be installed under the most severe environmental conditions (-20°F. to 140°F.)
- Use it in manholes and joint trench installations
- No heat or flame required
- No pressure bleed-down on pressurized cable repairs

Ideal For Aerial Applications



Kold-N-Klose® The System for Sheath Repair or Encapsulation Splicing

Separate sheath repair and encapsulation inventories are eliminated with Kold-N-Klose. Using the same material and a forced encapsulation procedure, the Kold-N-Klose system proves its craft friendly versatility on filled or air-core cable.

Ideal For Buried Applications



TBT62 Kit

Kold-N-Klose® Product Highlights

Feature	Benefit
No Heat Required	Eliminates safety concerns associated with the use of open flames or heat gun installation for both plant and installer. Also eliminates special storage and transportation safety equipment.
“Craft Friendly”	Uses standard installation techniques and procedures familiar to the craft and minimizes training.
Flexibility	The completed closure or repair is designed to remain flexible to assure the long-term quality of the seal during closure and cable movement.
Unique Packaging	Packaged for use in any splice or repair situation. Utilizes one product package for all applications, regardless of sheath opening length, bundle diameter or pair count.
No Pressure Bleed-Down Required (Pressurized Cable Repairs)	Reduces overall installation time; prevents accidental moisture penetration into other areas of the cable.
Dynamic Encapsulation (Encapsulated Splices or Repairs)	Forces encapsulant into all parts of the splice. Maintains pressure on the cured encapsulant to allow flexibility without encapsulant degradation. Can be immediately buried.
Quality Engineered	Tested for reliability. Bellcore approved.
Field Support	Complete training, video, and literature available.

Kold-N-Klose® System Components



Sheath Repair Sleeve

A tough flexible sleeve coated on one side with sealant, is used as the outer layer on repairs and splices. Provides permanent sealed protection against the environment. Packaged in rolls with cable ties included. Minimum order is 1 carton.

Catalog Number	Size	Sleeve Packaging	Sleeve Width
TBT9105	1	4 x 5 ft rolls of sleeve material per carton	4 3/4"
TBT9205	2	4 x 5 ft rolls of sleeve material per carton	7"
TBT9305	3	4 x 5 ft rolls of sleeve material per carton	8 1/2"
TBT9405	4	4 x 5 ft rolls of sleeve material per carton	12 1/2"
TBT9120	1	1- 20 ft roll of sleeve material per carton	4 3/4"
TBT9220	2	1- 20 ft roll of sleeve material per carton	7"
TBT9320	3	1- 20 ft roll of sleeve material per carton	8 1/2"
TBT9420	4	1- 20 ft roll of sleeve material per carton	12 1/2"



Klear Wrap

All-purpose wrap used to contain, protect and shape the splice bundle. Clear, non-adhesive, vinyl material allows easy re-entry into repaired cable. Blends with all colors. Non-conductive and self-adhering. Will not absorb moisture. 8 rolls per carton. Minimum order is 1 carton.

Catalog Number	Thickness	Length per Roll	Width
TBT03	3.0 mil	50 Feet	4"
TBT04	1.5 mil	150 Feet	4"



Encapsulation Kit

Packaged in bulk to permit repairs or splices from 25-pair to 2400-pair cable, any length or diameter with no waste. For example, kit contains enough material to effect 8-10 repairs or splices on 100-200-pair cable or two splices on 1500-pair etc. This reduces inventory requirements. Minimum order is 1 kit.

Catalog Number	Kit Contents
TBT60	Strain relief, spacer web, web funnels, Klear-Wrap, end tape, splice envelope and Ty-Rap® cable ties
TBT61	Same as TBT60 with the addition of TBT50 pressure tape
TBT62	Same as TBT61 with the addition of TBT20 sealant

TBT20 - Sealant

All-purpose, non-conductive sealant; broad operating temperature range: -20°F to 140°F (installation), -60°F to 200°F (service); homogeneous and non-toxic; compatible with industry standard encapsulants. The TBT20 name is identified on the release liner to prevent confusion with other sealants. Provided in 2" x 12" strips, individually separated and packaged in bundles of 10 strips. 10 bundles or 100 feet per carton. Minimum order is 1 carton.

TBT50 - Pressure Tape

High strength Mylar tape for use on pressurized repairs and encapsulated splicing applications. Supplied in 2" wide, 40 yard rolls. Each roll is sealed in its own polybag with several pressure venting tubes. 12 rolls per carton - Order by roll. Minimum order is 1 roll.

TBT69 - Strain Relief Kit

Unique, flexible, strong and easy to use method of strain relief. Can be used wherever a sheath opening is made - to prevent sheath creep. Kit contains: 40 feet of high strength Kevlar strain relief tape, 10 foot emery cloth strip and 50 Ty-Rap® cable ties. Minimum order is 1 kit.

WT3D - Cable Tie Installing Tool

Tool installs self-locking Ty-Rap® cable ties. Minimum order is 1 tool.

CVK - Cable Vent / Drain Kit

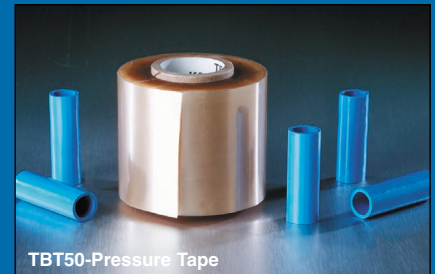
Product works as either a cable vent or as a cable drain. This dual design allows the cable to breathe freely as a vent or as a drain to permit quick water draining. It is easy and fast to use and requires no new installation techniques. Kit contains: 1 Vent/Drain pad, 1 cover seal 4.5" x 3". Packed 12 kits per carton. Minimum order is 1 carton.

TBTPRFL- Pressure Valve Kit

Product is designed to facilitate fast application of valves to pressurized cable systems. Internal 1/8" NPT tapered threads accept a variety of fittings. Kit contains: 1 pressure valve housing with stainless steel plate, and 1 mastic sealant pad. Packed 10 kits per carton. Minimum order is 1 carton.



TBT20-Sealant



TBT50-Pressure Tape



TBT69-Strain Relief Kit



WT3D-Cable Tie Installing Tool



CVK-Cable Vent / Drain Kit



TBTPRFL-Pressure Valve Kit

Kold-N-Klose® Sheath Repair System

Typical Material Requirements for Sheath Repairs 200 Pair Cable - Plastic or Lead Sheath

Application	Sheath Opening	TBT04 Wrap*	TBT20 Sealant (Strips)	TBTDR2 DR Tape	TBT50 Pressure Tape	Sheath Repair Sleeve	
						Length	Sleeve** Catalog Number
Pressurized Trouble Opening	18"	12 ft	12	21 ft	48 ft	42"	TBT93xx
Non-pressurized Trouble Opening	18"	12 ft	12	-	Option	33"	TBT92xx
Auxiliary Joint	-	-	2	4'	12 ft	13"	TBT93xx
Isolation Joint	3"	6 ft	9	6'	35 ft	20"	TBT93xx
Tree Rub - 6 inch	None	-	-	-	-	12"	TBT92xx
Sheath Pullout (aerial terminal)	12"	6 ft	1	-	-	16"	TBT92xx

* For PIC cable only. Use muslin for pulp or paper cable.

** xx=05 for 5ft roll or xx=20 for 20 ft roll of sheath repair sleeve

Note: For information regarding the full range of repair applications, material requirements for other cable sizes or a complete set of installation procedures, contact your Thomas & Betts representative or call our customer service team at (800) 685-9452.

Kold-N-Klose® Encapsulation System

Typical Material Requirements for Splicing

Cable Pair Count	Sheath Opening	TBT20 Sealant (Number of Strips)	TBT50 Pressure Tape	TBT60 Encapsulation Kit (Applications per Kit)	Length	No. of Lengths	Sleeve** Catalog Number	Approximate Encapsulant Required (Grams)
25	8"	3	9 ft	15	20"	1	TBT93xx	500
50	8"	4	12 ft	15	20"	1	TBT93xx	500
100	10"	4	12 ft	10	22"	1	TBT93xx	750
200	18"	4	15 ft	7	30"	1	TBT93xx TBT91xx	750-1500
400	18"	4	25 ft	4	30"	2	TBT93xx	1500-3000
600	18"	5	35 ft	4	32"	2	TBT93xx TBT91xx	2600-3800
900	18"	6	45 ft	3	32"	3	TBT93xx	3800-5000
1200	36"	12	80 ft	2	54"	3	TBT93xx	5700-7600
1500	36"	12	90 ft	2	54"	3	TBT93xx	7600-9500
1800	36"	16	105 ft	1	54"	3	TBT93xx	7600-9500
2400	36"	16	120 ft	1	54"	3	TBT93xx	10000

** xx=05 for 5 ft roll or xx=20 for 20 ft roll of sheath repair sleeve

Notes:

1. Sheath repair sleeve can be used in any combination of sizes to meet the size requirements of the splice or repair. For a complete set of installation procedures, contact your Thomas & Betts representative or call our customer service team at (800) 685-9452.
2. When the length or diameter of the splice requires more than one piece of sleeve, they are applied by overlapping the pieces of Kold-N-Klose sleeve material (saddlemethod), or by half-lapping the Kold-N-Klose sleeve material around the encapsulated splice. This method eliminates splice diameter restrictions on the use of Kold-N-Klose.

Thomas & Betts

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