



TAPES & SEALANTS

Tapes

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C_Tape_tape

Raychem Electrical PVC Tape

TE provides multiple grades of tape that provide UV resistance, flame retardant, cold weather performance while meeting cost effective solutions.

Professional grade tapes are used for electrical insulation of joints and splices in wires and cables up to 600 Volts. Commercial grade and General Purpose tapes are utilized for wrapping wire harnesses and insulating degaussing coils as well as being used as a protective jacket. Electrical phases, circuits, feeders and branches can be easily identified by our colored line of PVC tapes.

Part Number	Description	Mil Thickness
3030	 All Weather, PVC black pressure sensitive tape. Weather resistant, flame retardant, lead-free. Primary insulation for splices up to 600 V and all low temperature applications.	7 mil (0.18 mm)
8080	 Professional grade, PVC pressure sensitive, all weather vinyl tape, highly elastic and heavier thickness for added mechanical and electrical protection. Cold and weather resistant, flame retardant and lead-free. Primary insulation for splices at not more than 600 V and excellent protective jacket over all types of splices. Excellent cold weather performance.	8.5 mil (0.21 mm)
7070	 Professional grade, PVC pressure sensitive, all weather vinyl tape that is available in nine fade resistance colors for coding and insulating. Flame retardant and lead-free. Used for quick identification and/or a warning signal of electrical circuits, containers, and conduit system, as well as primary insulation for splices at not more than 600 V. Available colors: red, blue, yellow, green, white, orange, brown, violet, white.	7 mil (0.18 mm)
4040	 Commercial grade, PVC pressure sensitive, all weather vinyl tape that provides heavier thickness for added mechanical and electrical protection. Cold and weather resistant, flame retardant and lead-free. Can be used as primary insulation for splices at not more than 600 V and excellent protective jacket over all types of splices. Excellent cold weather performance.	8.5 mil (0.21 mm)
2020	 Heavy Duty, PVC pressure sensitive vinyl tape giving complete environmental mechanical and electrical protection for all types of pipewrapping applications. UV, bacteria and fungus resistant. Lead-free and flame retardant. Can be used for overhead and direct burial applications.	10 mil (0.25 mm)
5050	 Commercial grade, PVC pressure sensitive vinyl tape for general electrical insulation purposes. Insulate and repair for mining applications. Flame retardant, weather resistant and lead-free. Can be used for splices not more than 600 V.	7 mil (0.18 mm)
1818	 General Purpose, PVC pressure sensitive vinyl tape for general electrical insulation purposes. Flame retardant, weather resistant and lead-free. Can be used for splices not more than 600 V. Available in nine fade resistant colors: red, blue, yellow, green, white, orange, brown, violet, white, black.	7 mil (0.18 mm)

Selection Information:

Product Description	Catalog Number	Color	Thickness mil (mm)	Roll Width inches (mm)	Roll Length yard/feet (m)	Package Type	Case Qty	
2020	ETP-2020-0-25-33-B	Black	10 (0.25)	1 (25.4)	36 yd (32.9)	Cellophane	48	
	ETP-2020-0-51-33-B	Black	10 (0.25)	2 (51.4)	36 yd (32.9)	Cellophane	12	
	ETP-2020-0-38-33-B	Black	10 (0.25)	1-1/2 (38)	36 yd (32.9)	Cellophane	12	
	ETP-2020-0-19-33-B	Black	10 (0.25)	3/4 (19)	36 yd (32.9)	Cellophane	48	
3030	ETP-3030-0-19-20-A	Black	7 (0.18)	3/4 (19)	66 (20.1)	Cellophane	100	
	ETP-3030-0-19-20-P-A	Black	7 (0.18)	3/4 (19)	66 (20.1)	Plastic Case	20	
7070	ETP-7070-5-19-20-P-A	Green	7 (0.18)	3/4 (19)	66 (20.1)	Plastic Case	20	
	ETP-7070-4-19-20-P-A	Yellow	7 (0.18)	3/4 (19)	66 (20.1)	Plastic Case	20	
	ETP-7070-2-19-20-P-A	Red	7 (0.18)	3/4 (19)	66 (20.1)	Plastic Case	20	
	ETP-7070-6-19-20-P-A	Blue	7 (0.18)	3/4 (19)	66 (20.1)	Plastic Case	20	
	ETP-7070-9-19-20-P-A	White	7 (0.18)	3/4 (19)	66 (20.1)	Plastic Case	20	
	ETP-7070-1-19-20-P-A	Brown	7 (0.18)	3/4 (19)	66 (20.1)	Plastic Case	20	
	ETP-7070-3-19-20-P-A	Orange	7 (0.18)	3/4 (19)	66 (20.1)	Plastic Case	20	
	ETP-7070-8-19-20-P-A	Gray	7 (0.18)	3/4 (19)	66 (20.1)	Plastic Case	20	
	ETP-7070-7-19-20-P-A	Violet	7 (0.18)	3/4 (19)	66 (20.1)	Plastic Case	20	
	ETP-7070-6-13-06-B	Blue	7 (0.18)	1/2 (13)	20 (6.1)	Cellophane	100	
	ETP-7070-3-13-06-B	Orange	7 (0.18)	1/2 (13)	20 (6.1)	Cellophane	100	
	ETP-7070-2-13-06-B	Red	7 (0.18)	1/2 (13)	20 (6.1)	Cellophane	100	
	ETP-7070-9-13-06-B	White	7 (0.18)	1/2 (13)	20 (6.1)	Cellophane	100	
	ETP-7070-4-13-06-B	Yellow	7 (0.18)	1/2 (13)	20 (6.1)	Cellophane	100	
	ETP-7070-8-13-06-B	Gray	7 (0.18)	1/2 (13)	20 (6.1)	Cellophane	100	
	ETP-7070-5-13-06-A	Green	7 (0.18)	1/2 (13)	20 (6.1)	Cellophane	100	
	ETP-7070-7-13-06-A	Violet	7 (0.18)	1/2 (13)	20 (6.1)	Cellophane	100	
	ETP-7070-1-13-06-A	Brown	7 (0.18)	1/2 (13)	20 (6.1)	Cellophane	100	
	4040	ETP-4040-0-19-20-B	Black	8.5 (0.21)	3/4 (19)	66 (20.1)	Cellophane	100
		ETP-4040-0-25-20-B	Black	8.5 (0.21)	1 (25.4)	66 (20.1)	Cellophane	50
ETP-4040-0-38-20-A		Black	8.5 (0.21)	1-1/2 (38)	66 (20.1)	Cellophane	50	
ETP-4040-0-38-20-B		Black	8.5 (0.21)	1-1/2 (38)	66 (20.1)	Cellophane	50	
ETP-4040-0-51-20-B		Black	8.5 (0.21)	2 (51.4)	66 (20.1)	Cellophane	40	
8080	ETP-8080-0-19-20-A	Black	8.5 (0.21)	3/4 (19)	66 (20.1)	Cellophane	100	
	ETP-8080-0-19-20-P-A	Black	8.5 (0.21)	3/4 (19)	66 (20.1)	Plastic Case	20	
	ETP-8080-0-25-20-B	Black	8.5 (0.21)	1 (25.4)	66 (20.1)	Cellophane	50	
	ETP-8080-0-25-20-A	Black	8.5 (0.21)	1 (25.4)	66 (20.1)	Cellophane	50	
	ETP-8080-0-38-20-B	Black	8.5 (0.21)	1 1/2 (38)	66 (20.1)	Cellophane	50	
1818	ETP-1818-0-19-20-B	Black	7 (0.18)	3/4 (19)	66 (20.1)	Cellophane	100	
	ETP-1818-5-19-20-B	Green	7 (0.18)	3/4 (19)	66 (20.1)	Cellophane	100	
	ETP-1818-4-19-20-B	Yellow	7 (0.18)	3/4 (19)	66 (20.1)	Cellophane	100	
	ETP-1818-2-19-20-B	Red	7 (0.18)	3/4 (19)	66 (20.1)	Cellophane	100	
	ETP-1818-6-19-20-B	Blue	7 (0.18)	3/4 (19)	66 (20.1)	Cellophane	100	
	ETP-1818-9-19-20-B	White	7 (0.18)	3/4 (19)	66 (20.1)	Cellophane	100	
	ETP-1818-1-19-20-B	Brown	7 (0.18)	3/4 (19)	66 (20.1)	Cellophane	100	
	ETP-1818-3-19-20-B	Orange	7 (0.18)	3/4 (19)	66 (20.1)	Cellophane	100	
	ETP-1818-8-19-20-B	Gray	7 (0.18)	3/4 (19)	66 (20.1)	Cellophane	100	
ETP-1818-7-19-20-B	Violet	7 (0.18)	3/4 (19)	66 (20.1)	Cellophane	100		
5050	ETP-5050-0-19-20-B	Black	7 (0.18)	3/4 (19)	66 (20.1)	Cellophane	100	

Note: A = 1 inch core, B = 1-1/2 inch core

For additional parts contact your local TE representative.



C_CRPS_tape

CRPS Repair Tape

Flexible Cable Repair Tape

Raychem CRPS repair strip is a high-quality replacement jacket for low and high voltage flexible mining cables. It is a tool-free, flexible, flame-retardant elastomeric strip that has been specially formulated to provide excellent resistance to abrasion, tearing, and cutting.

- Precoated with a thermoplastic sealant that provides an excellent seal against moisture and corrosive elements
- MSHA approved (No. P-137-13-MSHA)
- Tool-free, flexible, flame-retardant elastomeric strip for jacket repair on mining and other flexible cable

Selection Information: dimensions in inches (millimeters)

Catalog Number	Strip Length	Strip Width	Std. Pack (Strips/Box)
CRPS-248	48 (1219)	2 (51)	20
CRPS-260	60 (1524)	2 (51)	20
CRPS-290	90 (2286)	2 (51)	15
CRPS-2120	120 (3048)	2 (51)	10

Approximate Coverage Length

Cable Diameter	CRPS-248	CRPS-260	CRPS-290	CRPS-2120
0.50 (13)	28 (711)	36 (914)	55 (1397)	73 (1854)
0.75 (19)	18 (457)	23 (584)	37 (940)	49 (1245)
1.00 (25)	14 (356)	17 (432)	26 (660)	35 (889)
1.25 (32)	11 (279)	14 (355)	21 (533)	28 (711)
1.50 (38)	9 (229)	11 (279)	18 (457)	24 (610)
1.75 (44)	7 (178)	9 (228)	15 (381)	20 (508)
2.00 (51)		8 (203)	14 (356)	19 (483)
2.50 (64)			10 (254)	13 (330)
3.00 (76)			9 (229)	12 (305)

Ordering Information

1. Select the appropriate catalog number based on cable diameter and length of cable damage to be covered (see "Approximate coverage length" chart above). For larger damaged areas, multiple strips may be used to provide continuous coverage.
2. To install, half-lap CRPS repair strip on cable, beginning 3" before damage and continuing 3 inches after damage.
3. CRPS repair strip is pre coated with a thermoplastic sealant.
4. Related test report: EDR-5068.

Recommended coverage area includes 3 inches on either side of damaged area.





C_FSTW_tape

FSTW Splicing Tape

Fast Splicing Tape Wrap

TE's Raychem FSTW is a thermoplastic rubber tape combined with a butyl rubber sealant specially formulated for underground applications. FSTW is ideal for repairing cable jackets, sealing low-voltage splices, and re-jacketing MV cable splices.

This tape provides a complete re-jacketing solution in one pass as opposed to the multi-layer construction required when using traditional tape products. It's quick to install. There is no need for separate sealing mastic and tape as it combines sealant and rubber tape in one convenient product.

FSTW rubber tape is 50 mils thick, which offers strong puncture resistance from underground material and debris. FSTW is rated for use on 90°C rated cables, in underground use, in acid or caustic soils, and saltwater environments. It is UV resistant and rated for aerial exposure.

Mastic is in contact with cable surface only at ends which allows for easy removal.

Splices made with FSTW qualify to ANSI C119.1

Selection Information: dimensions in feet (meters)

Catalog Number	Roll Width	Roll Length	Std. Pack
FSTW-2-1-6	2 (50)	6' (1.8)	12

Approximate Coverage Length

Catalog Diameter	FTSW-2-1-4	FTSW-2-1-6
0.50 (13)	28 (710)	42 (1000)
0.75 (19)	18 (460)	27 (680)
1.00 (25)	14 (355)	21 (530)
1.25 (32)	11 (280)	17 (430)
1.50 (38)	9 (230)	14 (355)
1.75 (44)	7 (180)	10 (280)
2.00 (51)	6 (150)	9 (230)
2.50 (63)		7 (180)
3.00 (76)		6 (150)

Ordering Information

1. See the approximate coverage length per roll based on cable diameter.
2. For repairing cable jackets, install the FSTW tape beginning 2" before the damage and continuing 1" after the damage.
3. FSTW is 2" (50) wide.
4. Related test reports: EDR-5431, EDR-5360.



C_MVFT_tape

MVFT

Medium Voltage Fusion Tape

Raychem Medium Voltage Fusion Tape (MVFT) is a self amalgamating tape, which provides insulation enhancement and protection against accidentally induced discharge. MVFT tape is designed to combine the integrity of a Silicone polymer with the versatility of a wraparound product.

MVFT tape is quick and easy to install. Upon application the tape amalgamates the over-lapped layers together, producing a complete seal. A single layer of MVFT tape, two-thirds overlapped, will provide AC voltage withstand (flashover protection) to at least 15 kV increasing to 35 kV if a second layer is applied. Although MVFT tape will stick to itself and other insulating materials, it will not adhere to metal or porcelain allowing easy removal for maintenance.

MVFT tape is compatible with all other products in the Raysulate MV Insulation enhancement system. This fusion tape is suitable for both indoor and outdoor use. MVFT tape exhibits non-tracking properties and possesses a continuous operating temperature up to 90°C.

MVFT tape offers a simple and effective solution to the problems of retrofit insulation of busbars particularly where existing equipment cannot be dismantled. It can be used for indoor and outdoor applications and is easily installed over a wide variety of shapes including complex connections.

Selection Information: dimensions in inches (millimeters)/yards (meters)

Catalog Number	Color	Width	Length	Std. Pack
MVFT-G-2-12(B4)	Gray	2 (50)	12 (11)	4 Rolls

Ordering Information

EDR-5465 Medium Voltage Fusion Tape Qualification Report



C_LVBT_tape

LVBT Busbar Tape

Low-Voltage Busbar Insulating Heat-Shrink Tape (1000 V)

Raychem LVBT is an adhesive-coated, low-voltage heat-shrinkable tape. One wrap insulates straight and bent bars in retrofit applications where tubing cannot be used. In addition, LVBT easily insulates unusual connections and geometries in the factory or field.

- Adhesive layer fuses the tape layers but does not stick to bus or hardware, providing tough insulation up to 1 kV in accordance with ANSI C37.20 and up to 3.6 kV in accordance with IEC specifications
- Rated to ANSI/IEEE C37.20
- UL-recognized to Standard 224 (file E137417), 600 V-125°C-VW.1

LVBT Tape Dimensions

Catalog Number	Roll width	Roll Length
LVBT-1-R	1 (25)	25 ft (7.5 m)
LVBT-2-R	2 (50)	25 ft (7.5 m)
LVBT-4-R	4 (100)	25 ft (7.5 m)

Selection Information: dimensions in feet (meters)

Bus Width	Catalog Number	Bus Length Insulated per Roll	Rolls/Std. Pack
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Rectangular Busbar*

1 (25)	LVBT-1-R	3.8 ft (1.2 m)	8
2 (50)	LVBT-2-R	4.8 ft (1.5 m)	4
3 (75)	LVBT-2-R	3.5 ft (1.1 m)	4
4 (100)	LVBT-2-R	2.7 ft (0.8 m)	4
6 (150)	LVBT-2-R	1.9 ft (0.6 m)	4
8 (200)	LVBT-4-R	2.9 ft (0.9 m)	4

*Maximum thickness: 5/8 (15)



Square Busbar

1 (25)	LVBT-2-R	6.25 ft (2.0 m)	4
2 (50)	LVBT-2-R	3.1 ft (1.0 m)	4
3 (75)	LVBT-2-R	2.0 ft (0.6 m)	4
4 (100)	LVBT-4-R	3.1 ft (1.0 m)	2
6 (150)	LVBT-4-R	2.0 ft (0.6 m)	2



Round Busbar

0.5 in (12 mm)	LVBT-1-R	8.0 ft (2.6 m)	8
1.0 in (25 mm)	LVBT-2-R	8.0 ft (2.6 m)	4
2.0 in (50 mm)	LVBT-2-R	4.0 ft (1.3 m)	4
3.0 in (75 mm)	LVBT-2-R	2.6 ft (0.9 m)	4
4.0 in (100 mm)	LVBT-4-R	4.0 ft (1.3 m)	2

Ordering Information

1. LVBT-1-R is best for shorter lengths. LVBT-2-R is the most versatile width for general purpose use. LVBT-4-R is useful for long lengths and larger bus sizes.
2. If sealing is needed, order the S-1052-6-150 sealant strips.



C_HVBT_tape

HVBT High Voltage Busbar Insulating Tape (5–15 kV)*

Raychem HVBT tape is an adhesive coated, high-voltage, heat-shrinkable, general-purpose tape for insulating straight and bent bars in retrofit applications where tubing cannot be used. In addition, HVBT easily insulates unusual connections and geometries in the factory or field.

HVBT tape is also ideal for protection against incidental/accidental bridging caused by birds and animals. HVBT may be suitable for higher voltage applications (see Ordering information #2 below). The HVBT adhesive layer fuses the tape layers but does not stick to bus or hardware, thus providing environmental sealing while allowing fast, easy removal.

HVBT tape may be used in applications up to 15 kV in accordance with ANSI/IEEE specifications and up to 36 kV in accordance with IEC specifications.

Rated to ANSI/IEEE C37.20-1987.

HVBT tape dimensions

Catalog Number	Roll	
	W	L
HVBT-1-R-01 (B8)	1"	25 ft.
HVBT-2-R-01 (B4)	2"	25 ft.
HVBT-4-R-01 (B2)	4"	25 ft.

Selection Information: dimensions in inches/feet (millimeters/meters)

Bus Width	Recommended Product	Bus Length Insulated per Roll
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Rectangular busbar

1 (25)	HVBT-1-R-01 (B8)	2.5 (0.7)
2 (50)	HVBT-2-R-01 (B4)	3.3 (1.0)
3 (75)	HVBT-2-R-01 (B4)	2.2 (0.6)
4 (100)	HVBT-2-R-01 (B4)	1.6 (0.5)
6 (150)	HVBT-2-R-01 (B4)	1.0 (0.3)
8 (200)	HVBT-4-R-01 (B2)	1.6 (0.5)

Maximum thickness: 5/8 inch (15 mm)



Square busbar

1 x 1 (25)	HVBT-2-R-01 (B4)	4.0 (1.2)
2 x 2 (50)	HVBT-2-R-01 (B4)	2.0 (0.6)
3 x 3 (75)	HVBT-2-R-01 (B4)	1.3 (0.4)
4 x 4 (100)	HVBT-4-R-01 (B2)	2.0 (0.6)
6 x 6 (150)	HVBT-4-R-01 (B2)	1.3 (0.4)



Round busbar

0.5 (12)	HVBT-1-R-01 (B8)	5.0 (1.5)
1.0 (25)	HVBT-2-R-01 (B4)	5.0 (1.5)
2.0 (50)	HVBT-2-R-01 (B4)	2.5 (0.7)
3.0 (75)	HVBT-2-R-01 (B4)	1.5 (0.4)
4.0 (100)	HVBT-4-R-01 (B2)	2.5 (0.7)

Ordering Information

- Select the appropriate catalog number for the application. Confirm selection with the following recommendations and HVBT tape dimensions:
 - HVBT-1-R is best for short lengths and small bus sizes.
 - HVBT-2-R is the most versatile width for general purpose use.
 - HVBT-4-R is useful for long lengths and larger bus sizes.
- HVBT may be suitable for applications with higher voltage than those listed. Please contact your TE representative for more information.
- To environmentally seal the bus, order S-1251-50-300-1 or S-1251-25-300-4 sealant strips separately.
- Recommended application is to wrap the tape around the busbar using a two-thirds overlap.
- Bolted connections require two layers of tape.
- Standard package:
 - HVBT-1-R: 8 rolls/box
 - HVBT-2-R: 4 rolls/box
 - HVBT-4-R: 2 rolls/box
- Continuous operating temperature: 90°C
- Related test reports: UVR-8023, EDR-5154



C_Sealants_tape

Hot-Melt and Cold-Applied Sealants

TE's Raychem adhesives are to be used for sealing the ends of uncoated tubing or for low-voltage applications requiring void-filling. The hot-melt sealants flow when heated and set when cooled to provide a superior watertight seal. The cold-applied sealants bond to surfaces when placed under pressure to create a water-tight seal.

Use sealants with uncoated tubing and molded parts for sealing applications or as an adhesion enhancement for specific applications.

Selection Information

Sealant Type	Description	Use with These Products	Application
S-1052	General purpose low-voltage sealant	WCSM-A/U (uncoated), MWTM-A/U (uncoated), FCSM-A/U (uncoated), LVBT, LVIT	heat-shrink
S-1085	General purpose high-voltage sealant	HVS (high-voltage splices), HVT (high-voltage terminations), MCK-5	heat-shrink
S-1189	High-temperature, low-voltage sealant	MCK	heat-shrink
S-1251	High-voltage Raysulate electrical insulator sealant	BBIT, BPTM, HVBC, HVBT, HVIS	heat-shrink
S-1171	Low-voltage mining sealant	LV-MSK, HV-MSK	heat-shrink
S-1278	Low-voltage sealant	RDSS	cold-applied
GelWrap Pad	Low-voltage PowerGel sealing gel	GelWrap, GelWrap-RS closure	cold-applied

Catalog Number	Color	Dimensions (W x L x T)	Std. Pack
S-1052-3-3000	Black	Roll: 1.5 x 120 x .12	5 rolls/box
S-1171-4-300	Black	Strip: 2 x 12 x .10	100 strips/box
S-1174-2-300	Black	Strip: .5 x 12 x .09	25 strips/box
S-1174-4-460	Black	Strip: 1 x 18 x .19	15 strips/box
S-1251-25-300-4	Red	Strip: 1 x 12 x .150	25 strips/box
S-1251-50-300-1	Red	Strip: 2 x 12 x .045	25 strips/box
S-1278-3 x 61 x 7620	Gray	Roll: 2.4 x 300 x .12	1 roll/box
GelWrap Pad 2x8	Gray	Strip: 2 x 8 x .18	6 strips/box
S-1189-3-600	Yellow		

Ordering Information

1. Select the appropriate catalog number based on the application information in columns two and three of the above table.
2. Use the information in the table above for ordering.
3. Sealants are supplied in bulk form with protective release paper.

