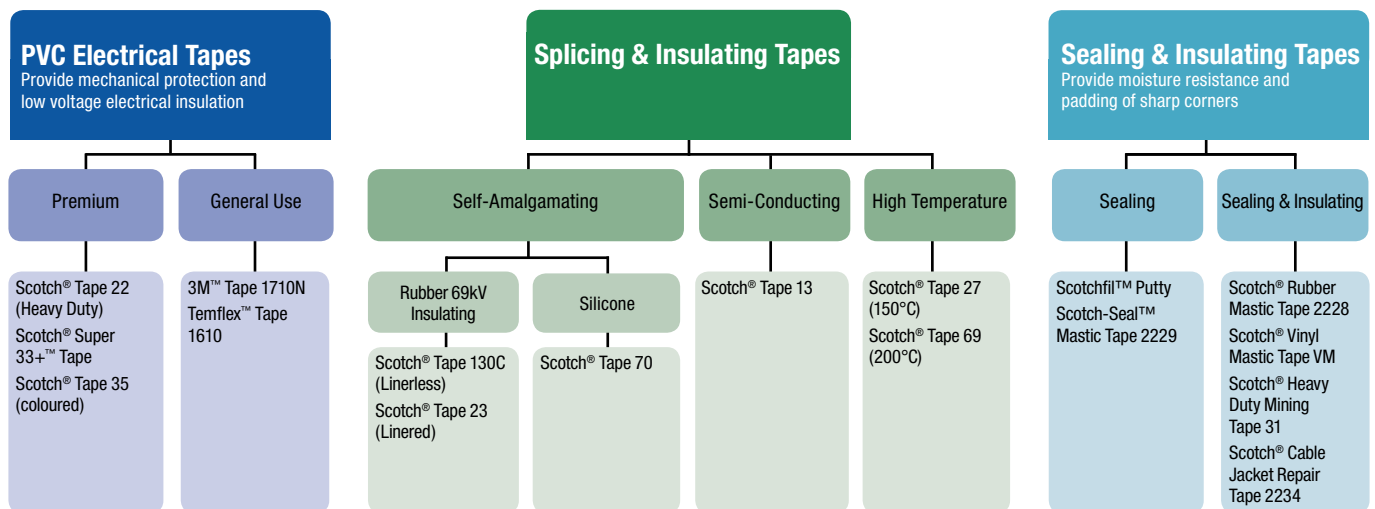


Trusted by
Generations
of Electrical Professionals








3M™ Electrical Tapes










3M has been developing and manufacturing high performance, easy to handle electrical tapes since the 1940s. The 3M Electrical Tapes range includes insulating and sealing tapes for protective jacketing, moisture sealing, electrical insulation, harnessing and colour coding. The selection chart below highlights the most commonly used tapes.









PVC Electrical Tapes

Product Name	Product Description	Thickness	Operating Temperature	Typical Applications	Roll Size	
					New Zealand	Australia
 Scotch® Heavy Duty Vinyl Electrical Tape 22	Extra thick for increased mechanical strength, abrasion resistance and faster buildup. Electrical insulating. Resists corrosion, alkalis and acids. Flame retardant. Black. UL listed & CSA certified.	0.25mm	-10°C to 80°C	Bus bar insulation. Cable jacket repair.	19mm x 33m 25mm x 33m 38mm x 33m	25mm x 33m 38mm x 33m 50mm x 33m
 Scotch® Super 33+™ Professional Use Premium Vinyl Electrical Tape	Highly conformable in all weather conditions. Resists UV rays, abrasion, corrosion, alkalis and acids. Flame retardant. Black. UL listed & CSA certified.	0.18mm	-18°C to 105°C	Primary insulation for splices up to 600V. Protective jacketing.	19mm x 6m 19mm x 20m 19mm x 33m 25mm x 33m	19mm x 6m 19mm x 20m 19mm x 33m 25mm x 33m
 Scotch® Professional Use Vinyl Electrical Tape 35	Fade-resistant colours, excellent insulating properties. Resists abrasion, corrosion, alkalis and acids. Flame retardant. White, Red, Blue, Yellow (Y), Green. UL listed & CSA certified.	0.18mm	0°C to 105°C	Phase identification and marking. Harnessing. Insulates splices up to 600V.	19mm x 20m	19mm x 20m
 3M™ General Use PVC Electrical Tape 1710N	Flexible, general purpose tape with good cool temperature adhesion. Flame retardant. White, Red, Blue, Yellow, Yellow/Green, Green, Black. UL listed & CSA certified.	0.18mm	0°C to 80°C	Protective jacketing, identification, colour coding, harnessing, bundling and mechanical protection.	18mm x 20m	18mm x 20m
 3M™ Temflex™ General Purpose Vinyl Electrical Tape 1610	Economical, flexible, general purpose tape in a range of colours. White, Red, Blue, Yellow/Green, Black.	0.15mm	0°C to 80°C	Phase identification, colour coding and harnessing.		19mm x 20m

Splicing & Insulating Tapes








Product Name	Product Description	Thickness	Operating Temperature	Typical Applications	Roll Size	
					New Zealand	Australia
 Scotch® Linerless Rubber Splicing Tape 130C	High voltage insulating; thermally conductive; self-bonding. Linerless.	0.76mm	90°C (operating); 130°C (emergency overload)	Primary electrical insulation for splicing all solid dielectric cables through 69kV.	19mm x 9m 25mm x 9m 38mm x 9m	19mm x 9m
 Scotch® Rubber Splicing Tape 23	High and low voltage insulating, self-fusing rubber tape. With easy to remove liner.	0.76mm	90°C (overload); 130°C (emergency overload)	Primary electrical insulation for splicing all solid dielectric cables through 69kV.	19mm x 9m 25mm x 9m 38mm x 9m	19mm x 9m 25mm x 9m 38mm x 9m
 Scotch® Electrical Semi-Conducting Tape 13	Rubber tape, semi-conductive. Compatible with cable semi-conducting jackets.	0.76mm	90°C (operating); 130°C (emergency overload)	Electrically round high voltage connections. Provides cable shield continuation.	19mm x 4.5m	19mm x 4.5m
 Scotch® Electrical Shielding Tape 24	All metal open weave shielding braid. Conformable, temperature stable.	0.4mm	0°C to 105°C	Continuous electrostatic shielding across splices.	25mm x 4.5m	25mm x 4.5m
 Scotch® Electrical Grounding Braid 25	All metal woven braid. High current carrying capacity of 6 AWG wire. Solderable. Append "MSHA approved".	2mm	0°C to 130°C	Conformable ground braid for splices and terminations.		13mm x 4.5m
 Scotch® Self-Fusing Silicone Rubber Electrical Tape 70	Arc and track resistant; self-fusing, long lasting silicone rubber. Excellent UV resistance.	0.30mm	180°C	Protective overwrap for terminating high voltage cables.	25mm x 9m	25mm x 9m
 Scotch® Fire and Electric Arc Proofing Tape 77	Protects cable until limiting devices can interrupt faulted current. Excellent UV resistance.	0.76mm		Use on high-energy cables that are within 457mm of other high energy cables.		38mm x 6m
 Scotch® Varnished Cambric Tapes 2510 and 2520	Yellow, varnished coated cotton cloth. 2510: no adhesive; 2520: adhesive.	2510: 0.18mm 2520: 0.20mm	105°C	Insulation of bus bars, motor leads (for re-entry), service drop connections.		2510: 25mm x 33m 50mm x 33m 2520: 19mm x 18m
 Scotch® Glass Cloth Electrical Tapes 27 and 69	Woven insulating glass cloth. High temperature resistance, high mechanical strength. UL listed & CSA certified.	0.18mm	27: 150°C 69: 200°C	Heat-stable insulation for furnace and oven controls, motor leads and switches.	27: 12mm x 20m 19mm x 20m 25mm x 55m 69: 19mm x 33m 25mm x 33m	27: 12mm x 20m 69: 19mm x 33mm 25mm x 33mm

Sealing & Insulating Tapes

Product Name	Product Description	Thickness	Operating Temperature	Typical Applications	Roll Size	
					New Zealand	Australia
 Scotch® Rubber Mastic Tape 2228	Self-fusing rubber based compound bonded to a moisture sealing mastic; all-weather*.	1.65mm	90°C	Insulate, pad and seal bus bar and splice connections.	25mm x 3m 50mm x 3m	25mm x 3m 50mm x 3m
 3M™ Scotch-Seal™ Mastic Tape Compound 2229	Conformable and durable mastic. Excellent moisture and environmental seal*.	3.2mm	90°C	Sealing high voltage cables and accessories.	25mm x 3m 95mm x 3m	25mm x 3m 95mm x 3m
 3M™ Scotchfill™ Electrical Insulation Putty	Black, self-fusing, insulating putty in tape form.	3.2mm	0°C to 80°C	Insulation of connections up to 600V; smoothing of bus bar irregularities.	38mm x 1.5m	38mm x 1.5m
 Scotch® Vinyl Mastic Tape VM	Two tapes in one - vinyl and mastic, designed to seal out moisture and protect against corrosion.	1.1mm	80°C	Cable sheath repair.	101mm x 3m	38mm x 6m 101mm x 3m 152mm x 3m
 Scotch® Heavy Duty Mining Tape 31	Tough, black, self-healing, abrasion resistant backing with mastic to repel moisture. Flame retardant. MSHA approved.	1.5 mm	0°C to 105°C	Cable jacket repair in extremely harsh mining and industrial environments.		50mm x 2.5m
 Scotch® Cable Jacket Repair Tape 2234	Tough, black, self healing, abrasion resistant backing with mastic to repel moisture. Flame retardant.	1.5mm	-30°C to 105°C	Cable jacket repair in extremely harsh industrial environments.	50mm x 1.8m	50mm x 1.8m

*For best UV protection, overwrap with Scotch® Super 33+™ Vinyl Electrical Tape

Special Use Tapes

Product Name	Product Description	Thickness	Temp. Rating	Typical Applications	Roll Size	
					New Zealand	Australia
 3M™ Scotchrap™ Corrosion Protection Tape 50	All-weather performance and corrosion resistance. Resistant to impact and abrasion.	0.25mm	80°C	Corrosion protection on pipes, conduits, fittings etc.	50mm x 30m 152mm x 30m	24mm x 30m 48mm x 30m 96mm x 30m
 3M™ Temflex™ Cotton Friction Tape 1755	High grade friction tape. Good abrasion resistance.	0.33mm	80°C	Abrasion protection for splices and connections.	19mm x 18m	19mm x 18m
 3M™ Performance Plus Duct Tape 8979	Six month clean removal duct tape. Sunlight resistant, leaves behind no sticky residue. Blue.	0.32mm	93°C	Cap pipe ends and conduit stored outdoors. Hanging, sealing poly drapes.	48mm x 23m 48mm x 55m	48mm x 23m 48mm x 55m
 3M™ Cloth Tape 3939	Heavy duty duct tape; good adhesion, strong backing. Silver.	0.23mm	93°C	Sealing heating ventilation and air conditioning ducts.	48mm x 55m 96mm x 55m	48mm x 55m 72mm x 55m
 3M™ Utility Duct Tape 1910C	Utility duct tape with polyethylene coated cloth backing with tacky rubber adhesive. Silver and Black.	0.15mm	50°C	Sealing, holding, bundling.	48mm x 10m 48mm x 50m	48mm x 10m 48mm x 50m
 Scotch® PVC Sealing and Joining Tape 1352B	Stabilised & plasticised PVC film coated tape suitable for most light industrial sealing & joining applications. Black.	0.15mm	60°C	Joining polythene sheeting. Sealing air ducts. Temporary holding applications.	50mm x 30m 72mm x 30m	50mm x 30m
 Tartan™ PVC Sealing and Joining Tape 2352	Stabilised & plasticised soft PVC film coated tape with rubber-based pressure sensitive adhesive, suitable for most light industrial sealing & joining applications. Silver.	0.13mm	60°C	Sealing air ducts. Temporary holding applications.		50mm x 30m

Taping Tips

To ensure the safest, most reliable use of PVC Electrical Tapes, always:

- Apply tape with enough stretch to conform to the objects you're wrapping. Be sure to let the last 50mm relax before tabbing it down to prevent unwinding (sometimes called "flagging").
- Wrap an irregular mechanical connector, such as a split bolt, with rubber or mastic tape to pad sharp edges, before overwrapping it with vinyl electrical tape.
- Wrap tapered shapes "uphill" — that is, from the smallest to the largest point. This way you always secure the previous layer.
- Always use scissors or a knife to cut tape. If you must tear it by hand, then keep fingers close together when tearing tape. The farther apart they are, the more the tape will stretch before it tears.
- Use the right tape for the right conditions. Vinyl tapes are rated for cold-weather application in two classes: 0°C and -18°C. Tapes formulated for high-temperature environments are typically rated 80°C or 105°C.



Wrapping Tips

Type of Tape	Number of Layers/Application Instructions
Vinyl Electrical Tapes - Jacketing and Mechanical Protection	Always use a minimum of two half-lapped layers. The last layer should be wrapped in a more relaxed manner - let the last wrap relax to prevent the layer from flagging.
Rubber Tapes - Electrical Insulation, Mechanical Padding, Water Sealing and Shaping	Wrap tape tightly to achieve the watertight seal. Rubber tapes are typically overwrapped with vinyl tape.
High Voltage Tapes - Insulating and Semi-conductive Layers	Apply outside of roll to the cable, in highly stretched half-lapped layers. Never use a semi-conductive tape as an insulation.
Mastic Compounds - Insulating, Mechanical Padding, Moisture Sealing and Shaping	Mastic compounds are to be overwrapped with vinyl tapes to initiate flow and watertight seal. Do not apply excessive amount of mastic to prevent oozing.



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