

3M Science.
Applied to Life.™

**Electrical Solutions
you can rely on.**










Electrical Tapes




3M™ Temflex™
1500 General
Purpose Tape

3M invented the world's first vinyl electrical tape and sets the industry standard for quality with a tape for nearly every electrical application. We offer a range of over 30 electrical tapes from general purpose insulation tape, to advanced glass cloth and mastic. All providing the exceptional performance and reliability you have come to expect from 3M.


3M™ Premium Electrical Insulation Tapes

Product	Description	Thickness	Temp. rating	Roll Size
 Scotch® Super 33+™ Premium Black PVC Tape	Provides protection with minimum bulk. Resistant to abrasion, moisture, alkalis and acids. UV resistant. Flame retardant. Electrical insulation for splices up to 600V.	0.178mm	105°C	19mm x 20m
 Scotch® Super 88 Premium Black PVC Tape	All weather; heavy duty, professional use, abrasion resistant, fast build up. Primary insulation for splices up to 600V. Protective jacketing.	0.216mm	105°C	19mm x 20m 25mm x 20m 38mm x 20m
 Scotch® 35 Premium Coloured PVC Tape	Nine fade-resistant colours, super stretchy and conformable, excellent insulating properties. Resists abrasion, corrosion, alkalis and acid. Phase identification and marking. Harnessing.	0.178mm	105°C	19mm x 20m
 Scotch® 22 Premium Black PVC Tape	Thicker for increased mechanical strength and abrasion resistance. Electrical insulating. Bus bar insulation. Cable jacket repair. Electrical insulation for splices up to 600V.	0.254mm	80°C	19mm x 33m 25mm x 33m 38mm x 33m 50mm x 33m
 Scotch® 33 Standard Black PVC Tape	General purpose PVC insulating tape. Resists abrasion, moisture, alkali, acid corrosion and UV. Flame retardant. For all general purposes cable joints up to 600V.	0.178mm	80°C	9mm x 33m 12.7mm x 33m 19mm x 33m 25mm x 33m 38mm x 33m 50mm x 33m
 Scotch® 700 Black PVC Tape	All purpose insulating tape. Resistant to abrasion, moisture, alkalis, acid and UV. Flame retardant. Primary insulation for wire and cable joints and repairs.	0.18mm	80°C	19mm x 20m
 Scotch® 2510 Standard Varnished Cambric Tape	Flexible and electrically insulating with a smooth finish. Performs continuously in temperatures up to 105°C. Resistant to moisture, abrasion, puncture and cut-through.	0.18mm	105°C	19mm x 20m

3M™ General Purpose Electrical Insulation Tapes





Product	Description	Thickness	Temp. rating	Roll Size
 3M™ Temflex™ General Purpose PVC Tape 1500	General purpose insulation tape. Resistant to abrasion, moisture, alkalis, acids, corrosion and UV. Flame retardant. Available in 10 colours.	0.15mm	90°C	19mm x 25m

3M™ Phase Marking Tapes

Product	Description	Thickness	Temp. rating	Roll Size
 3M™ Temflex™ Pre-Printed Phase Marking Tape 1700P	Pre-printed white tape with black phase marking identification characters. Resistant to abrasion, alkalis, acid, corrosion and UV. Flame retardant.	0.178mm	80°C	15mm x 10m

See page 4 for alternative wire marking products

3M™ Self Amalgamating Tapes

Product	Description	Thickness	Temp. rating	Roll Size
 Scotch® 23 Lined Premium Rubber (EPR) Electrical Tape	Insulate and splice solid dielectric cables through 69kV. Lined, insulating, thermally conductive, self-bonding rubber.	0.76mm	90°C (continuous) 130°C (short term)	19mm x 9.15m 25mm x 9.15m 38mm x 9.15m 50mm x 9.15m
 Scotch® 130C Linerless Premium Rubber EPR Tape	Insulate and splice solid dielectric cables through 69kV. Linerless, high-voltage insulating, thermally conductive, self-bonding rubber.	0.762mm	90°C (continuous) 130°C (short term)	19mm x 9.15m 25mm x 9.15m 38mm x 9.15m 50mm x 9.15m
 Scotch® 70 Premium Silicone Rubber Tape	Protects and overwraps high-voltage cable terminations and serves as base layer to provide clean reentry into connections. Arc and track resistant. Self-fusing, long-lasting, silicone rubber.	0.3mm	180°C	25mm x 9.15m
 Scotch® 13 Semi Conductive Rubber (EPR) Tape	Rubber tape, semi-conductive. Compatible with cable semi-conducting jackets. Electrically ground high-voltage connections. Provides cable shield continuation.	0.762mm	90°C (continuous) 130°C (short term)	19mm x 4.5m 38mm x 4.5m

Cable Accessories

► Insulating Sprays

3M™ Scotch® 1601 Clear & 3M™ Scotch® 1602 Red Insulating Spray (400ml)

An insulating and covering paint based on alkyd resin. It 'hardens' into a flexible and resistant film, with excellent adhesion to most common surfaces such as metal, glass, plastic, wood, etc. Resists UV-rays, acids, oil and alkalis, moisture and is weatherproof. Characterised by its high dielectric strength. Scotch 1602 Insulating Spray has the addition of colouring pigments for coloured protection insulation or marking.



► Anti-Corrosion Sprays

3M™ Scotch® Anti Corrosion Sprays 1600 (400ml)

Provides highly effective anti-corrosion protection. Its rubber-asphalt base forms a dense, abrasion resistant covering that protects against moisture, spray salt water, all corrosive media and is resistant to the effects of physical impacts.



3M™ Scotch® Zinc Spray 1617 (400ml)

An ideal cold galvanizer, provides permanent protection against rust and corrosion. Excellent adhesion to iron and steel, resists weathering, UV radiation, moisture, heat up to 500°C, alkaline solutions and mineral oils. An ideal primer for metal constructions, complies with DIN 50976 (zinc content) and DIN 53167 (corrosion protection).

3M™ Scotchkote™ Electrical Coating

A fast drying sealant and bonding agent recommended for joints wrapped with plastic electrical tape. Provides vinyl tapes with an extra oil, moisture and corrosion-resistant layer of flexible coating for buried applications. Supplied in a 425g brush top can.

► Cleaning Sprays

3M™ Scotch® Electrical Contact Cleaner 1625

Loosens dirt, light oxide layers and impurities of every kind in an effective gentle manner. Electrically neutral and totally residue-free, for use in almost any environment as a spray cleaner.

3M™ Scotch® Electrical Degreaser 1626 (400ml)

A dissolving cleaner for greases, oils, lubricants, resins and tar. Residue free, non-corroding and washes away asbestos.

3M™ Scotch® Rust Remover 1633 (400ml)

A multi-purpose spray. Loosens rust, protects against moisture and renewed oxidation, can be used as a lubricant, easily releases tightly sealed bolts, and has a high penetration capacity.



► Prevention and Maintenance Sprays

3M™ Scotch® Dehumidifier Spray 1605 (400ml)









Penetrates and displaces moisture. Defrosts frozen sections and forms a thin protective film preventing the renewed ingress of moisture. Neutral toward paints, plastics, rubber and fabrics. Effective over a wide temperature range from -74°C to +175°C.

3M™ Scotch® Silicone Spray 1609 (400ml)




A general use product for preventative maintenance, protection and lubrication. Lubricates moving parts, without becoming resinous and can be used over a wide temperature range (-32°C to +177°C) providing long lasting protection against moisture and corrosion. Neutral towards paints, plastic, rubber, foamed materials, wood and fabrics.






3M™ Mastic Tapes

Product	Description	Thickness	Temp. rating	Roll Size
 Scotch® 2210 Vinyl Mastic Tape	Provides excellent environmental and moisture seal. Conformable and durable mastic for sealing high-voltage cables and accessories. "Built-in" vinyl backing for fast application and abrasion resistance.	0.815mm 1.18mm	38°C	19mm x 6.06m 38mm x 6.06m 101mm x 3.03m
 Scotch® 2200 Vinyl Mastic Pad	Provides excellent environmental and moisture seal. Conformable and durable mastic for sealing high-voltage cables and accessories. "Built-in" vinyl backing for fast application and abrasion resistance.	3.2mm	38°C	114mm x 165mm
 Scotch® 2228 Rubber Mastic Tape	Provides excellent environmental and moisture seal. Extra-conformable and durable rubber-backed mastic for sealing cables and accessories. "Built-in" rubber backing for added conformability.	1.65mm	90°C	25mm x 3.03m 50mm x 3.03m
 Scotch® 2229 Insulation Mastic Tape	Provides excellent environmental and moisture seal. Conformable and durable mastic for sealing high-voltage cables and accessories. Overwrap with vinyl.	3.2mm	71°C	25mm x 3.03m 95mm x 3.08m
 3M™ Scotchfil™ Electrical Putty and 3M™ Scotchfil™ Electrical Insulation Putty	Black, self-fusing, insulating putty in tape form. Smooths irregularities on fittings and valves.	3.175mm	80°C	38mm x 1.5m
 Scotch® 2221 Oil Barrier Mastic Tape	Self-fusing PU mastic tape providing oil barrier.	1.5mm	90°C (continuous) 130°C (short term)	19mm x 1.5m
 Scotch® 2220 Stress Control Mastic Tape	Provides stress control for cable terminations and high voltage joints.	0.762mm	90°C (continuous) 130°C (short term)	19mm x 4.5m
 3M™ Scotch Seal™ Pre-formed Rubber Sealant Tape 5313	Tacky solid extrusion based on synthetic rubber. High adhesive strength. Water and weather resistance.		100°C	20mm x 10m


3M™ Glass Cloth Tapes

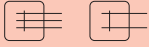





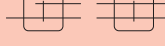

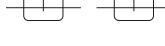
















Product	Description	Thickness	Temp. rating	Roll Size
 Scotch® 69 Premium Glass Cloth Tape (200°C)	Woven insulating glass cloth; high temperature resistance. High mechanical strength. Heat stable insulation for furnace and oven controls, motor leads & switches.	0.177mm	200°C	6mm x 33m 9mm x 33m 12mm x 33m 15mm x 33m 19mm x 33m 25mm x 33m 50mm x 33m
 Scotch® 79 Standard Glass Cloth Tape (155°C)	High temperature resistance. High conformability, absorption and high solvent resistance. For transformer and motor applications.	0.177mm	150°C	15mm x 55m 19mm x 55m 30mm x 55m
 Scotch® 27 General Purpose Glass Cloth Tape (130°C)	Woven glass cloth. High mechanical strength and resistance to high temperatures. Provides corrosion free protection.	0.178mm	150°C	12mm x 20m 19mm x 55m 25mm x 55m 38mm x 55m 50mm x 55m

3M™ Corrosion & Fire Protection Tape

Product	Description	Thickness	Temp. rating	Roll Size
 3M™ Scotchrapp™ Heavy Duty Corrosion Protection PVC Tape 50	Tough, heavy-duty tape. Protect pipe, conduits and fittings from corrosion. All-weather performance and corrosion resistance. Abrasion and impact-resistant.	0.254mm	65.6°C (application) 80°C (Service)	25mm x 30.5m 50mm x 30.5m 101mm x 30.5m 152mm x 30.5m
 3M™ Scotchrapp™ Heavy Duty Corrosion Protection PVC Tape 51	Tough, heavy-duty tape. Protect pipe, conduits and fittings from corrosion. All-weather performance and corrosion resistance. Abrasion and impact-resistant.	0.508mm	65.6°C (application) 80°C (Service)	25mm x 30.5m 50mm x 30.5m 101mm x 30.5m
 Scotch® 77 Arc Tape Scotch® Fire Protection Elastomer	Arc and fireproofing tape. Acts as heat shield and flame barrier to cables and accessories. UV, water acid resistant.	0.762mm	13000°K	38mm x 6m 78mm x 6m

3M™ General Purpose Tapes

Product	Description	Thickness	Temp. rating	Roll Size
 Scotch® 2000 Electricians Duct Tape	Utility tape. Easy tear. Clean removal. Water resistant. For holding and bundling applications.	0.152mm	21°C	51mm x 46m

Connector	Connector type	Special features	Maximum insulation	mm ² wire range (AWG)	Operating temperature	UL, CSA or CE certified
		Moisture Resistant Seal	3.94mm (0.155")	0.5-1.5 (22-14)	105°C (221°F)	UL SF
		Dry Environment Applications	3.94mm (0.155")	0.5-1.5 (22-14)	105°C (221°F)	UL SF
		Moisture Resistant Applications	3.94mm (0.155")	0.5-1.5 (22-16)	105°C (221°F)	
		Flame Retardant	3.05mm (0.120")	0.5-1.5 (22-16)	105°C (221°F)	UL SF CE
		Flame Retardant	3.68mm (0.145")	0.75-1.5 (18-16) Solid/Stranded 14 Stranded	105°C (221°F)	UL SF CE
		Run and Tap Splicing	3.68mm (0.145")	0.75-1.5 (18-16) Solid/Stranded 14 Stranded	90°C (194°F)	UL
		Run and Tap Splicing	4.82mm (0.190")	3.0-4.0 (12-10) Solid/Stranded 10 Stranded	90°C (194°F)	UL SF CE
		Dual Element Connection	3.68mm (0.145") Tap 4.82mm (0.190") Run	0.75-1.5 (18-14) Tap 3.0-4.0 (12-10) Run	105°C (221°F)	UL SF CE
		Moisture Resistant Applications	3.68mm (0.145")	0.75-1.5 (18-16) Solid/Stranded 14 Stranded	75°C (167°F)	UL
		Low Voltage (Automotive) Applications	2.79mm (0.110") Tap 3.68mm (0.145") Run	0.5-1.0 (22-18) Tap 0.75-1.5 (18-14) Run	90°C (194°F)	CE
		T-Tap Disconnect	3.81mm (0.150")	0.5-1.0 (22-18)	105°C (221°F)	UL SF CE
		T-Tap Disconnect	3.81mm (0.150")	0.75-1.5 (18-14)	105°C (221°F)	UL SF
		Fuse Holder	3.81mm (0.150")	0.75-1.5 (18-14)	90°C (194°F)	
		RUS Listed Full Featured	1.52mm (0.060")	0.4-0.9 (19-26) Solid Wire	-40°C to 60°C (-40°F to 140°F)	UL
		RUS Listed Full Featured	2.08mm (0.082")	0.4-0.9 (19-26) Solid Wire	-40°C to 140°C (-40°F to 285°F)	UL
		Twist On Flame Retardant	n/a	22-12	105°C (221°F)	UL SF CE
		Twist On Flame Retardant	n/a	22-8	105°C (221°F)	UL SF CE
		Twist On Flame Retardant	n/a	14-6	105°C (221°F)	UL SF CE
		Moisture seal for direct burial	n/a	18-10	-40°C-105°C (-40°F-221°F)	UL