

Micro Switches

- Wide variety of actuators
- Completely sealed body
- 40mm and 50mm sizes
- 10A to 21A @ 250Vac
- DC versions available



The TM and TMV series of high precision micro switches features a wide variety of actuators to suit most high-speed switching applications.

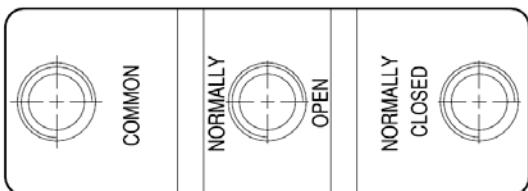
Available from stock at ITC, the TM and TMV series switches have a high switching capacity - 10A to 21A at 250Vac in a reliable thermoplastic housing. These switches may be installed in a wide range of applications from simple on/off limits, presence/absence sensing, or embedded in pressure or temperature assemblies.

Features and Specifications

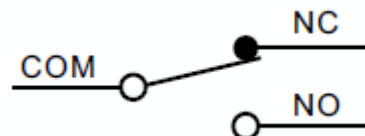
		TMV Series	TM Series (General Purpose & Sealed)
Operating speed		0.01mm to 1m/s (push button type)	
Operating frequency	Mechanical	240 operations/minute	
	Electrical	20 operations/minute	
Insulation resistance		100mΩ minimum (at 500Vdc)	
Contact resistance		15mΩ maximum	
Connection (NO, NC & Common)		.250x.032" quick connect tabs	Screw connection
Rated voltage/current		10A / 16A / 21A (see page 5)	15A
Dielectric strength	Non-contiguous terminals	1,000Vac, 50/60Hz for 1 minute	
	Between non-contiguous terminals	2,000Vac, 50/60Hz for 1 minute	
Shock	Mechanical durability	10m/sec ² (approx. 100G's)	
	Malfunction	3m/sec ² (approx. 30G's)	
Expected life	Mechanical	20,000,000 operations minimum	
	Electrical (1.7A, 110V)	100,000 operations minimum	500,000 operations minimum
Ambient temperature		-25 to 65° C	-25 to 80° C; Sealed -15 to 80°
Ambient humidity		85% RH maximum	85% RH max; Sealed 95% RH max
Weight		~8g	~22 to 58g
Approvals		cURus (UL 508 and CSA 22.2 NO. 14-13)	

Information subject to change without notice

Screw terminals diagram (TM series):

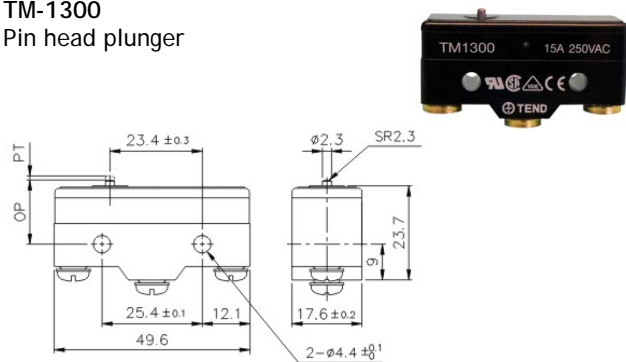


Contact Configuration:

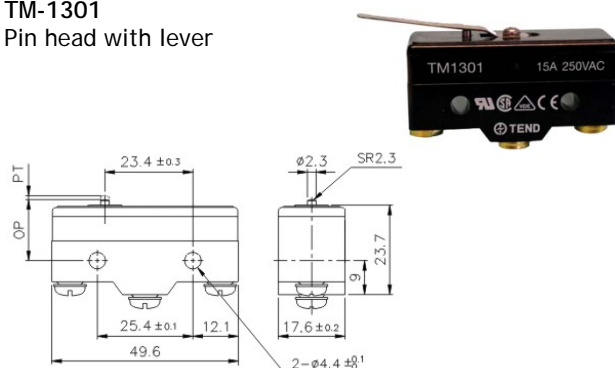


TM Micro Switch 1300 Series

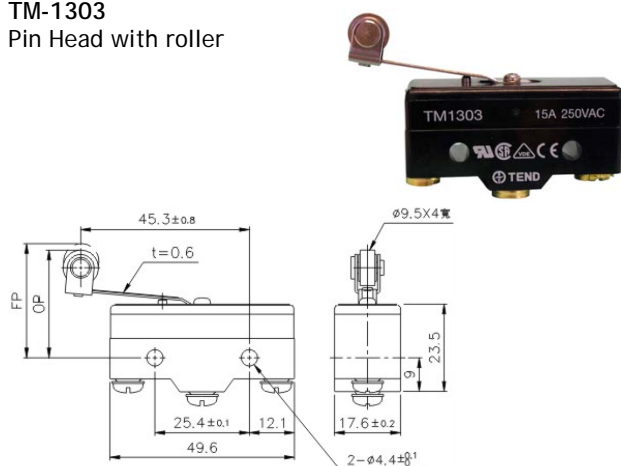
TM-1300
Pin head plunger



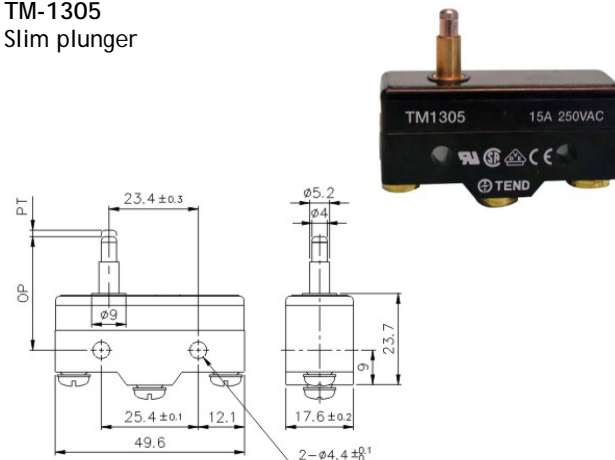
TM-1301
Pin head with lever



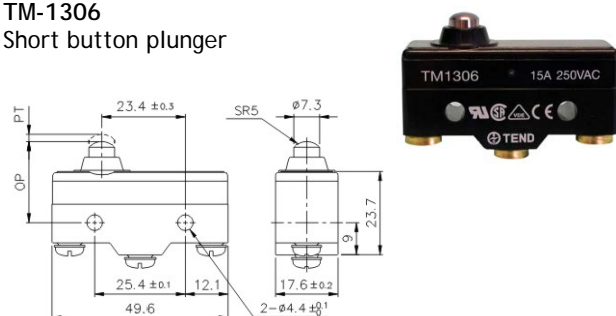
TM-1303
Pin Head with roller



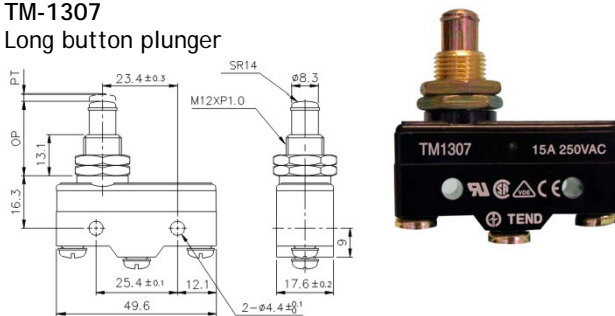
TM-1305
Slim plunger



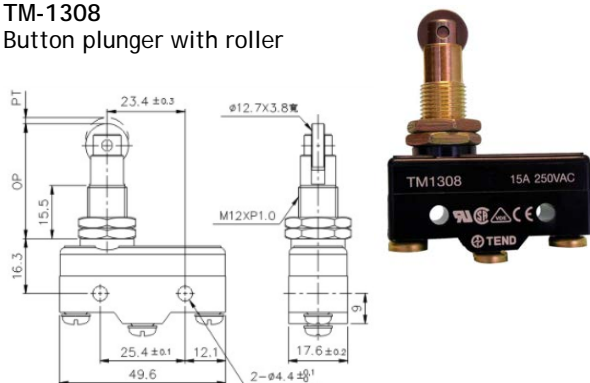
TM-1306
Short button plunger



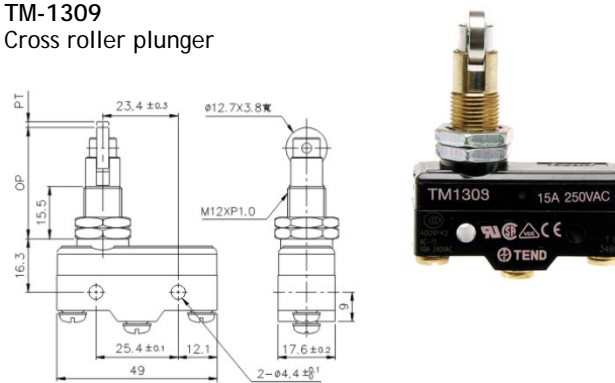
TM-1307
Long button plunger



TM-1308
Button plunger with roller



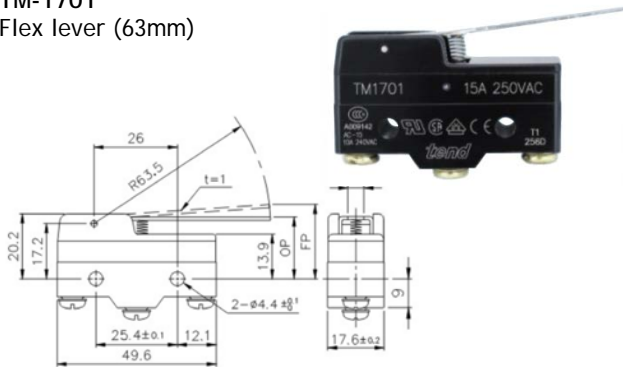
TM-1309
Cross roller plunger



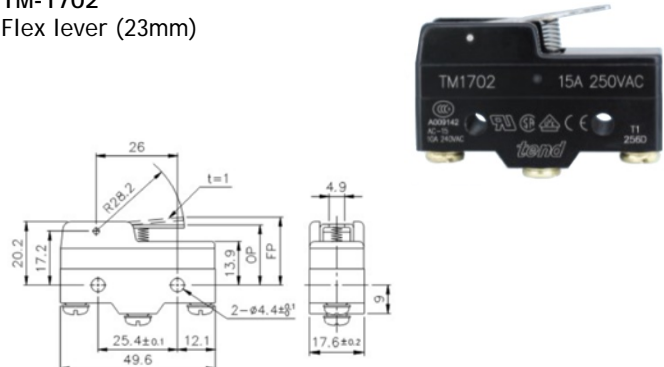
Information subject to change without notification

TM Micro Switch 1700 Series

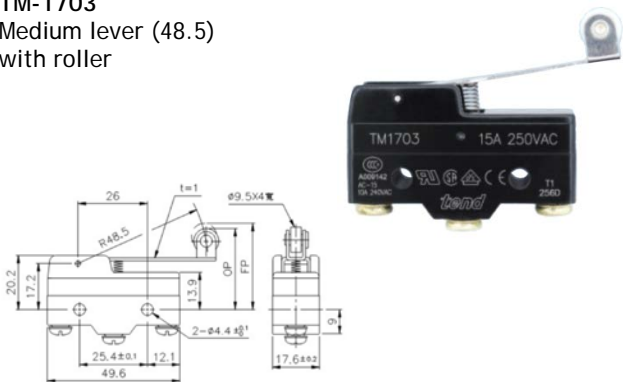
TM-1701
Flex lever (63mm)



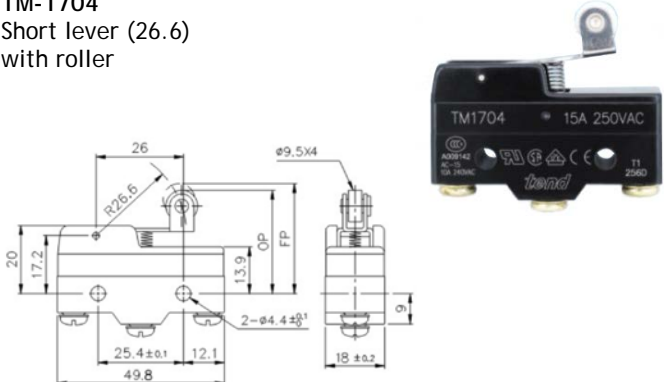
TM-1702
Flex lever (23mm)



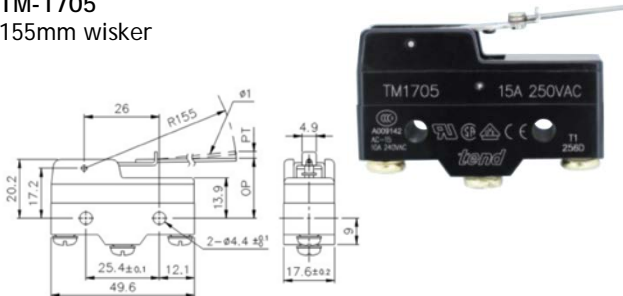
TM-1703
Medium lever (48.5)
with roller



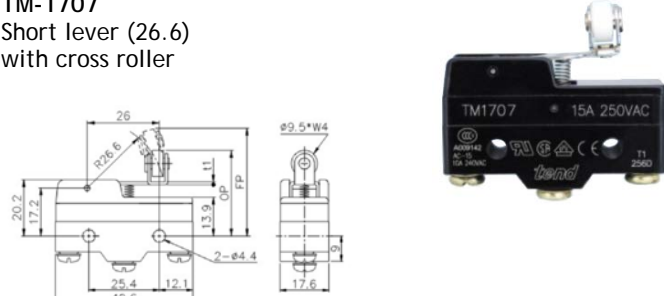
TM-1704
Short lever (26.6)
with roller



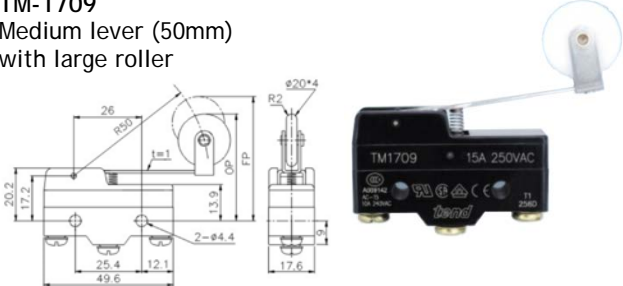
TM-1705
155mm whisker



TM-1707
Short lever (26.6)
with cross roller



TM-1709
Medium lever (50mm)
with large roller



TM-1743
Double hinged roller lever

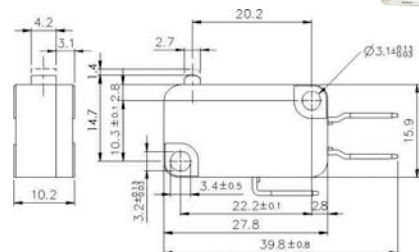


Information subject to change without notification

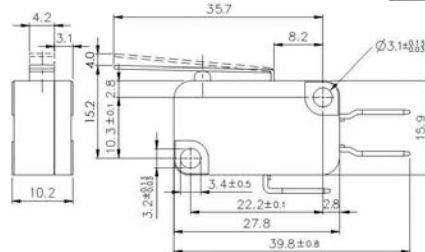
- Completely sealed versions of the TM-1700 series are available with the addition of '-1' at the end of the part number i.e. TM-1701 becomes TM-1701-1.

TMV Compact Micro Switches

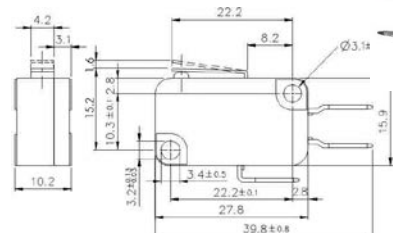
TMV-160-C
Pushbutton



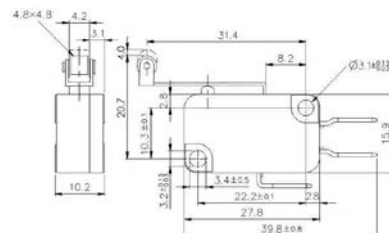
TMV-161-C
Long lever



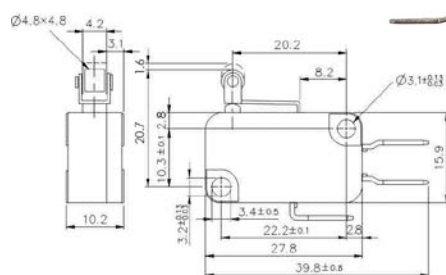
TMV-162-C
Short lever



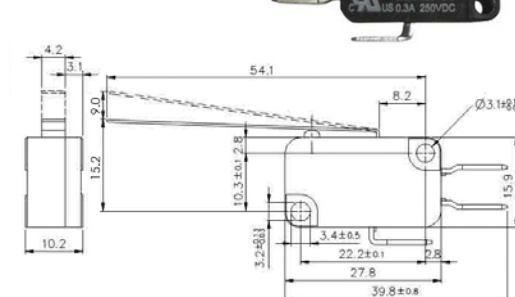
TMV-163-C
Long lever with roller



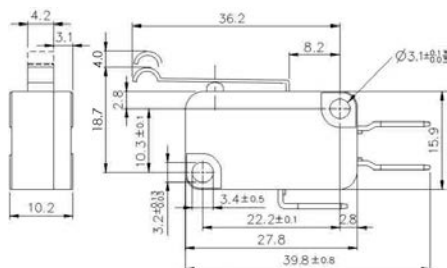
TMV-164-C
Short lever with roller



TMV-165-C
Extra long lever



TMV-166-C
Crank lever



Information subject to change without notification

- 10A and 21A versions of the TMV series are available (TMV-10x-C & TMV-21x-C).

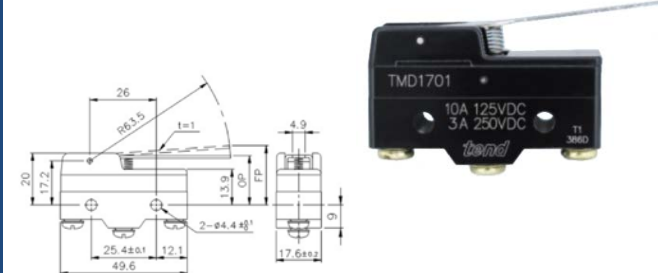
TMD Direct Current Micro Switches

Features and Specifications

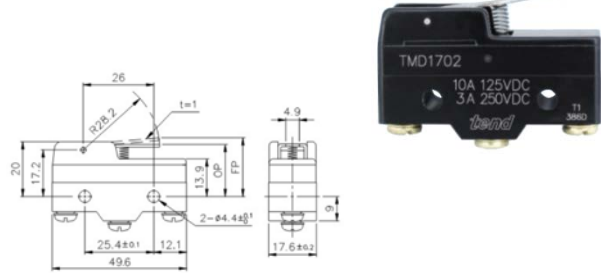
	TMD Series
Dielectric strength	1,500Vac, 50/60Hz for 1 minute
Ambient temperature	-25 to 80° C
Weight	Approximately 27 - 36g

(the same as on page 2, except where listed above)

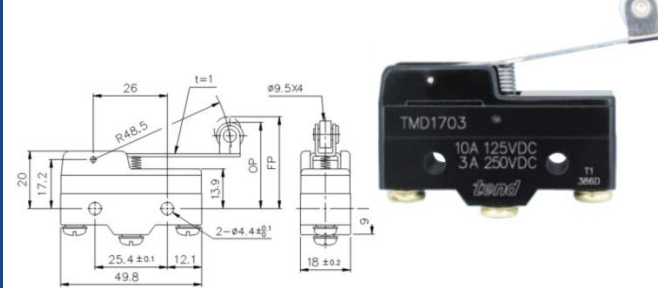
TMD-1701



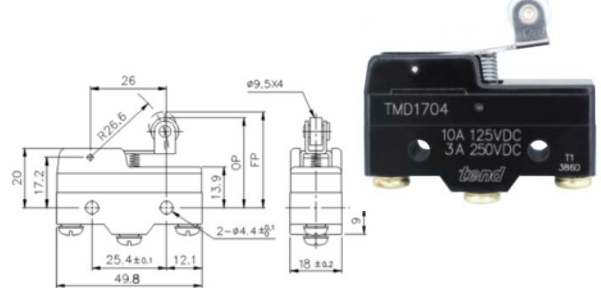
TMD-1702



TMD-1703



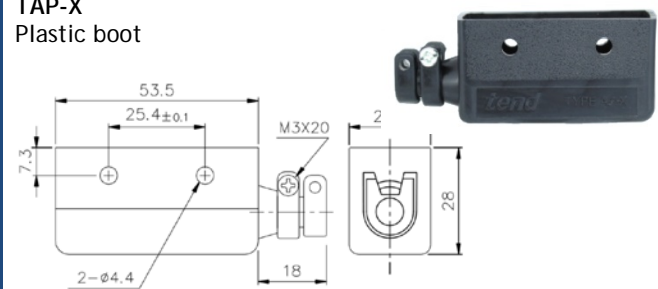
TMD-1704



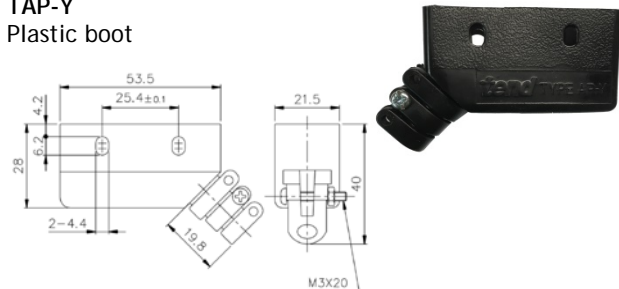
Information subject to change without notification

Accessories for TM Series^

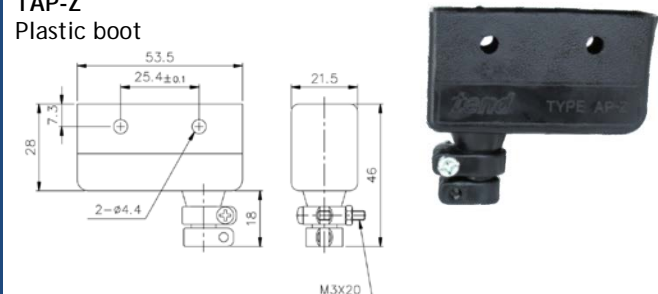
TAP-X
Plastic boot



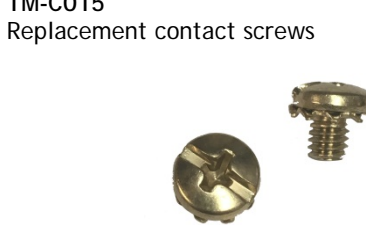
TAP-Y
Plastic boot



TAP-Z
Plastic boot



TM-C015
Replacement contact screws



^ for TM and TMD series, not suitable for TMV series; Information subject to change without notification

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DIN Rail



DIN Rail Accessories



Non-Metallic Enclosures



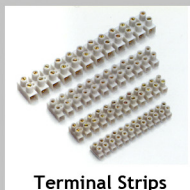
Hinged Enclosures



Thermal Management



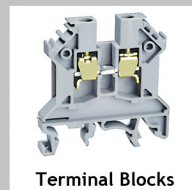
Multipole Connectors



Terminal Strips



Compact IP68 Connectors



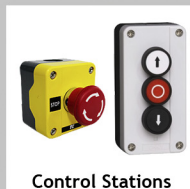
Terminal Blocks



22.5mm Pushbuttons



LED Indicators



Control Stations



Limit Switches



Micro Limit Switches



Safety Switches



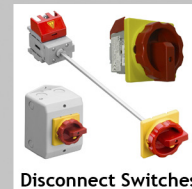
Foot Switches



Circuit Breakers



IEC Contactors



Disconnect Switches



Midget and CC Fuse Holders



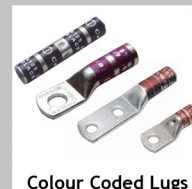
Tower Lights



Power Continuity



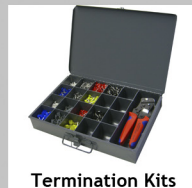
Ferrules



Colour Coded Lugs



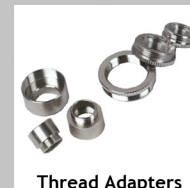
Crimp Terminals



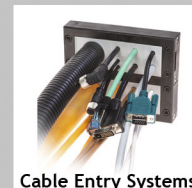
Termination Kits



Cable Glands



Thread Adapters



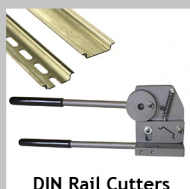
Cable Entry Systems



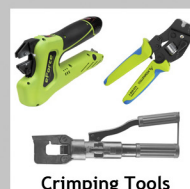
Wire Management



Assembly Tables



DIN Rail Cutters



Crimping Tools



Hole Cutting & Punching Tools



Cutting & Stripping Tools - Wire & Cable