Twist-Strip™

TSK8000

Outer Jacket Stripper For Shielded Twisted Cable

AWM ALL WIRE MATERIAL BY WEIDNER

DMC DANIELS MANUFACTURING CORPORATION®

An ISO9001-2008 and AS9100C Registered Company

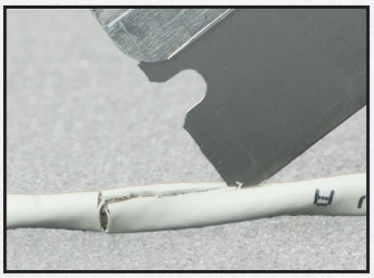
Safe, Accurate, and Repeatable

The Problem:

It is common for high-speed data cable to utilize one or more shielded twisted conductors. This type of cable is common in all digital electronic networks, and it requires new tooling disciplines. The challenge in designing a wire prep system of this type is the non-circular configuration of the cable, and the many types, variations, and stripping nuances of shielded, twisted, multi-wire cable.

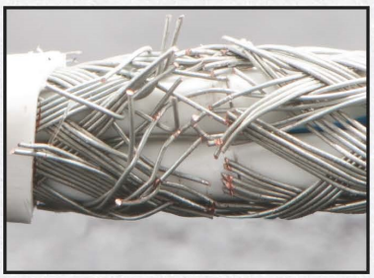
Imprecise Methods

Stripping multi-conductor wire cable is often done by hand with a razor blade. This is a dangerous and difficult way to remove the jacket from any type of electrical cable. A razor blade offers no method of controlling the depth of cut which will result in a poor quality strip, and cuts or scrapes on the shielding.



Risk of Injury

Using a razor blade increases the probability of injury to the operator and constant tugging to remove the outer jacket which causes operator fatigue. Other methods for removal of the jacket like laser or thermal stripping produce hazardous work environments.



Time Consuming

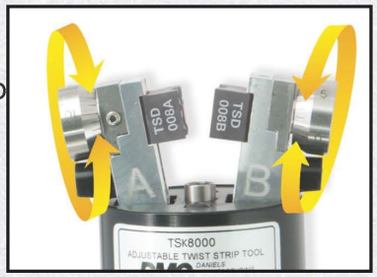
The conventional “ring and slit” method for stripping shielded twisted cable is very time consuming and requires a highly skilled operator to successfully do.

The Solution:

The DMC Twist-Strip product line gives the user a system with the maximum capabilities, while keeping the system portable, self-contained, affordable, and ergonomic. The precise blade adjustment, zero friction ball bearing design, articulating/locking arms, and changeable dies makes the Twist-Strip very user-friendly and efficient when performing the difficult task of cable preparation.

Adjustable *(New Feature)*

The TSK8000 has adjustable blades that allow the tool to accommodate variances in the cable. Varying jacket thickness and cable diameter are two examples of common differences you may see in different lots of the same cable. Simple adjustments allow the user to set the cutting blades for a deeper or shallower score of the cable jacket.

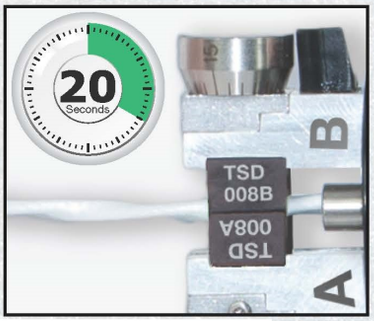


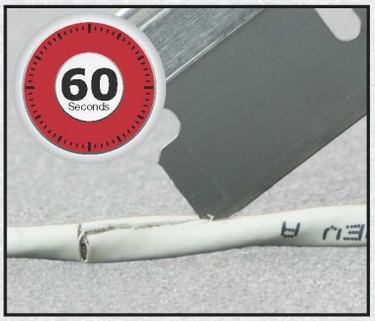
Precise

A cable track precisely machined into each die set creates a controlled rotation of the dies/blades as the cable is moved along the cable. A simple 90° bend of the cable results in the jacket halves separating for removal, reducing the amount of force needed to remove the jacket.

Consistent

The repeatable function of the tool reduces operator error and is up to 3 to 5 times faster than conventional methods.



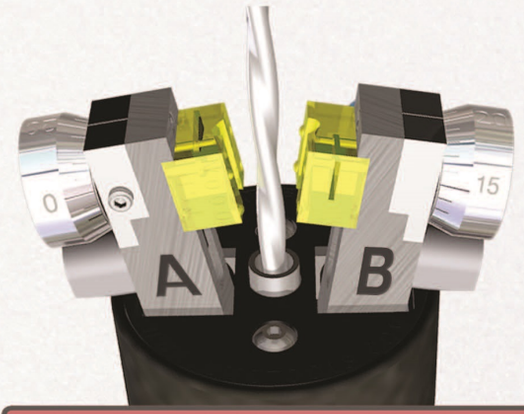


AWM Weidner
Kettemerstr. 25
70794 Filderstadt
Tel.: 0049 711 7009503
Fax: 0049 711 7009504
info@awm-weidner.de
www.awm-weidner.de

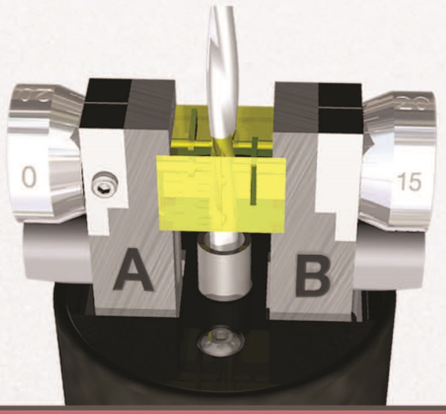
PATENT #7,243,429

TSK8000-B-REV A

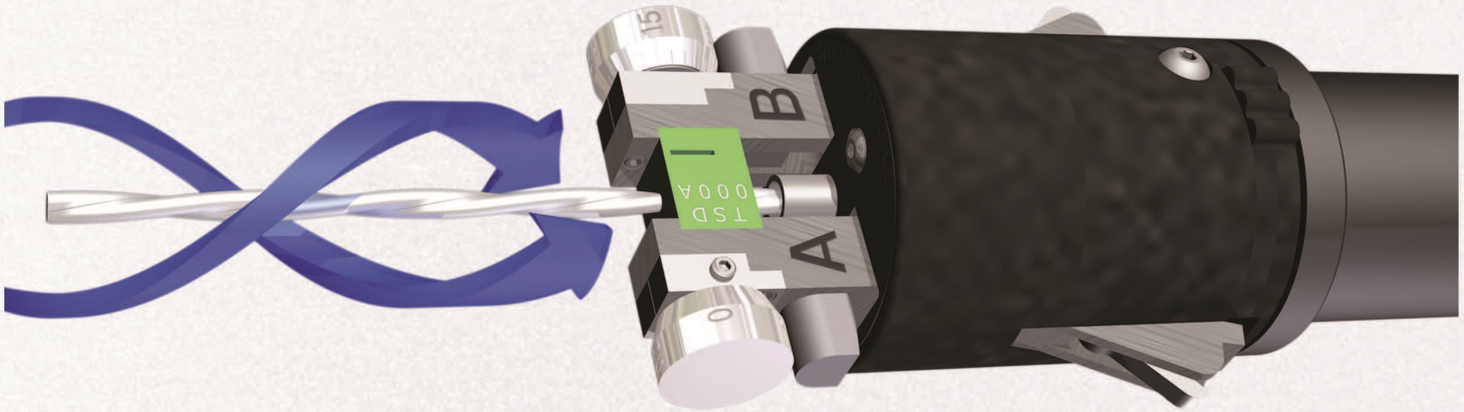
Operation Overview



Arms/Dies Open with Cable

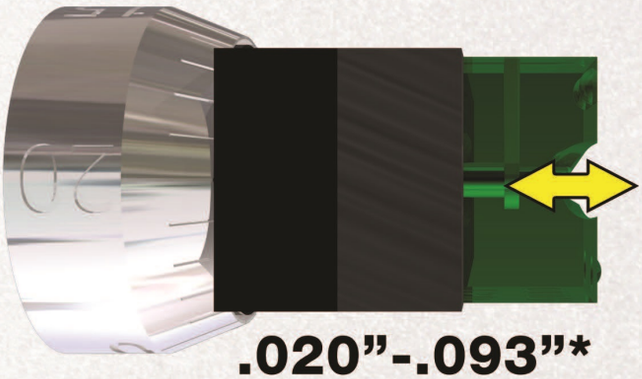


Arms/Dies Closed on Cable



(Score outer jacket to a safe depth)

Stripping



.020”-.093”*

(Controlled blade adjustment for deeper or more shallow cut)

Adjustable Blade Depth

*Single side movement

Completed Strip

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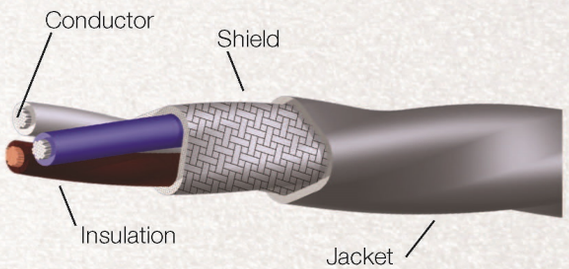
NEMA WC 27500 Shielded & Unshielded Cable Part Numbering System						
(Example: M27500-20SB3T23)						
M27500	**-**	**20**	**SB**	**3**	**T**	**23**
IDENTIFICATION NUMBER	-	CONDUCTOR SIZE*	BASIC WIRE SPECIFICATION*	NUMBER OF CONDUCTORS*	SHIELD DESCRIPTION*	JACKET TYPE*

**See DMC website for complete description of M27500 cable construction*

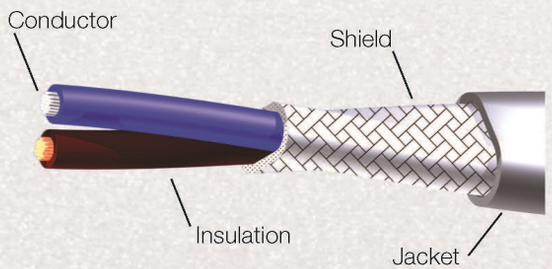
JACKET MATERIAL (TYPE)

Single Jacket	Double Jacket	Jacket Material	Temp. Rating
00	00	No Jacket	–
01	51	Extruded white PVC	90ºC
02	52	Extruded clear nylon	105ºC
03	53	White polymide braid impregnated with clear polymide finisher over a polyester tape	105ºC
04	54	Polyester braid impregnated with high temperature finishers over polyester tape	105ºC
05	55	Extruded clear FEP	200ºC
06	56	Taped PTFE	260ºC
07	57	White taped PTFE	260ºC
08	58	Extruded white irradiated PVDF	150ºC
09	59	Extruded white FEP	200ºC
10	60	Extruded clear PVDF	125ºC
11	61	Wrapped FEP	200ºC
12	62	Tape of natural polymide combined with FEP wrapped and heat sealed	150ºC
14	64	Extruded white ETFE	150ºC
15	65	Extruded clear ETFE	150ºC
16	66	Taped PTFE	200ºC
17	67	Extruded ECTFE	150ºC
18	68	Clear Extruded ECTFE	150ºC
20	70	Extruded white PFA	260ºC
21	71	Extruded clear PFA	260ºC
22	72	Tape of polyimide combined with clear FEP wrapped and heat sealed	200ºC
23	73	Extruded white irradiated ETFE	200ºC
24	74	PTFE wrapped over a tape layer of natural polyimide combined with FEP and heat sealed	200ºC
25	75	Tape layer of white polytetrafluoroethylene (PTFE)	260ºC
26	76	Extruded, white (XLETFE)	200ºC

Three Conductor



Two Conductor



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Features:

- Rugged lightweight construction
- Adjustable blade depth settings
- Micrometer style blade adjustment knobs.
- Removable and replaceable die sets
- Die Sets have a contoured cable track
- Adjustable cable strip length
- Locking tool arms
- Locking head
- Free rotating core
- Positive die closure

Die Set

TS8000 (Tool)

TSK8000 (Kit)

Tool Specifications:

- The TS8000 accommodates a variety of multi-conductor cable having diameters from 0.0625” to 0.187”
- Strips the outer jacket of shielded twisted multi-conductor, and round cable
- End stripping or window stripping of cable as needed
- Interchangeable stripping dies (with cable track and carbide blade set)
- Adjustable blade depth settings
- Tool Weight: .81 lbs
- Shipping Weight: 2lbs (includes entire tool and accessories in foam lined case)
- Die Arm Lever Force: 4.4 lbs
- Die Arm Lever Length: 1”
- Tool Dimensions: 1.75” wide, 9.75” tall
- Case Dimensions:
- Cable Max OD: < 0.187”/4.75mm
- Cable Min OD: >0.0625”/1.59mm

Custom Projects and Kits

DMC works to provide the most comprehensive solutions for high speed data and shielded, twisted, multi-conductor cable preparation.

In order to assure jacket stripping will comply with the Twist-Strip customer User’s requirements, DMC requests that a 10ft of sample of the User’s Cable be sent to DMC, and a project will be opened to study and advise, or to design a new die set for the User’s cable application. DMC will determine if a standard die set can be used. If there is not a standard die set, DMC will create a new die set for the particular application. DMC will also test standard and custom die sets with the cable that was supplied by the Twist-Strip User to ensure functionality. A recommended depth setting will be provided by DMC to avoid possible shield damage.

In order that we may quote the proper tooling for your requirements, we will need a sample of your cable. Please follow the simple steps below:

1. Complete the Twist-Strip Cable Sample Worksheet located on the back page of this booklet or at www.dmctools.com/products/twist-strip_how_to_purchase.html
2. Please ship 10 feet of EACH cable for which you are requesting Cable Die Sets.
3. Include a copy of the completed Twist-Strip Cable Sample Worksheet with your shipment.
4. Email a copy of the completed Twist-Strip Cable Sample Worksheet to dmc@dmctools.com along with your shipment tracking number.

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