

SCTExxxB BATTERY POWERED SAFE-T-CABLE® CRIMP TOOLS



DESCRIPTION

The SCTExxxB Series Battery Powered Safe-T-Cable® Crimp Tools are hand held, self-contained crimp tools intended to crimp ferrules, and tension/cut the cable in accordance with the performance requirements of SAE specification AS4536. Each application tool installs Safe-T-Cable® kits identified in SAE specifications AS3509, AS3510 and AS3511.



The SCTExxxB Series meets the requirements of RoHS Directive 2002/95/EC.

FEATURES

- Ergonomic design allows one-handed operation
- White LED light illuminates tool head and work area.
- Cable can be removed after tensioning to adjust routing
- Head rotates 350 degrees
- Connection point for tool balancing systems
- Red LED to display the current status of the unit

CRIMP CAPACITIES

- Max. Crimp Force: 4 Tons (35.6 kN)
- Avg. Crimp Time: 3 seconds
- Avg. Crimps per Charge: Approx. 100 (Approx 200 with Extended Life Battery)

SPECIFICATIONS

- Length: Varies according to nose
- Width: 2.87" (72.9 mm)
- Depth: 4.5" (114.3 mm)
- Weight (with battery): 2.8 lb (1.3 kg)
- Sound Level: 75 db(A) at 1 meter
- Vibration: <math><8.2 \text{ ft/s}^2 \text{ (} 2.5 \text{ m/s}^2)</math>
- Hydraulic Oil: Shell Tellus® T-15

TOOL INCLUDES:

Carrying Case, Two 18v 1.5 AMP Batteries, One Battery Charger.

DMC SAFE-T-CABLE® PART NUMBERS

Safe-T-Cable Battery Tool Part Numbers

TOOL PART NUMBER	CABLE DIAMETER	NOSE LENGTH (INCHES)
SCTE203B	.022	3
SCTE205B	.022	5
SCTE207B	.022	7
SCTE209B	.022	9
SCTE323B	.032	3
SCTE325B	.032	5
SCTE327B	.032	7
SCTE329B	.032	9
SCTE403B	.040	3
SCTE405B	.040	5
SCTE407B	.040	7
SCTE409B	.040	9
SCTE623B	.062	3
SCTE625B	.062	5
SCTE627B	.062	7
SCTE629B	.062	9



BATTERY (P/N: HDE-LI-B)

- 18 VDC, Lithium Ion, 1.5 AMP
- Charging Time: 15 minutes
- 2 batteries included with each new tool

OPTIONAL EXTENDED LIFE BATTERY (P/N: HDE-LI3-B)

- 18 VDC, Lithium Ion, 3.0 AMP
- Charging Time: 30 minutes

VAC Power Adaptors

- 120 VAC P/N: HDE-120AC-A
- 240 VAC P/N: HDE-230AC-A

BATTERY CHARGER

- 120 VAC P/N: HDE-LI-120C
- 240 VAC P/N: HDE-LI-230C



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.022 NOMINAL DIA. CABLE KITS			
KIT PART NUMBERS*			LENGTH
321 CRES	INCONEL 625	INCONEL 600	
C10-109	C08-109N	C09-109	9"
C10-112	C08-112N	C09-112	12"
C10-115	C08-115N	C09-115	15"
C10-118	C08-118N	C09-118	18"
C10-121	C08-121N	C09-121	21"
C10-124	C08-124N	C09-124	24"

.032 NOMINAL DIA. CABLE KITS			
KIT PART NUMBERS*			LENGTH
321 CRES	INCONEL 625	INCONEL 600	
C10-209	C08-209N	C09-209	9"
C10-212	C08-212N	C09-212	12"
C10-215	C08-215N	C09-215	15"
C10-218	C08-218N	C09-218	18"
C10-221	C08-221N	C09-221	21"
C10-224	C08-224N	C09-224	24"

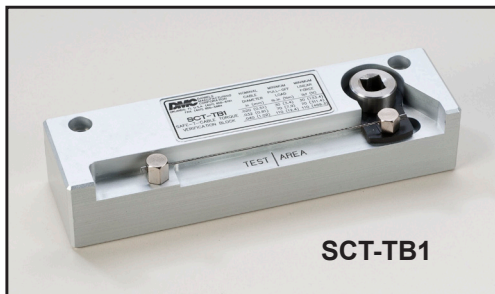
.040 NOMINAL DIA. CABLE KITS			
KIT PART NUMBERS*			LENGTH
321 CRES	INCONEL 625	INCONEL 600	
C10-309	C08-309N	C09-309	9"
C10-312	C08-312N	C09-312	12"
C10-315	C08-315N	C09-315	15"
C10-318	C08-318N	C09-318	18"
C10-321	C08-321N	C09-321	21"
C10-324	C08-324N	C09-324	24"

.062 NOMINAL DIA. CABLE KITS			
KIT PART NUMBERS*			LENGTH
321 CRES	INCONEL 625	INCONEL 600	
C10-909	Consult DMC	C09-909	9"
C10-912	Consult DMC	C09-912	12"
C10-915	Consult DMC	C09-915	15"
C10-918	Consult DMC	C09-918	18"
C10-921	Consult DMC	C09-921	21"
C10-924	Consult DMC	C09-924	24"

*Kit Part Number applies to one cable assembly and one ferrule. Minimum order is 50 pieces.



ELONGATED FERRULE PART NUMBERS					
Cable Diameter	321 CRES	INCONEL 625	INCONEL 600	Diameter	Length
.022	F10-08	F08-08	F09-08	.090"	.185" Max
.032	F10-04	F08-04	F09-04	.105"	.325" Max
.040	F10-07	F08-07	F09-07	.105"	.325" Max
.062	F10-10	Consult DMC	Consult DMC	.150"	.375" Max



SCT-TB1

SCT-TB1 Torque Verification Block for .022", .032", and .040" Safe-T-Cable®.

SCT-TB2 Torque Verification Block for .062" Safe-T-Cable®.

Periodic verification of tool indenter and tensioning mechanism settings is done with the Safe-T-Cable® Torque Verification Block. Indenter setting should be verified periodically and must always be checked if the nose assembly has been removed or changed.

(SCT-TB1R - Torque verification block configured for right-hand reading torque wrenches.)

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Safe-T-Cable was developed because the installation of hand twisted Lockwire is an expensive, time consuming, and awkward process. Safe-T-Cable is a simplified application method that relies on a precisely calibrated application tool for proper installation rather than operator skills. Operator training is simple, inspection is objective, and rework is virtually eliminated. This results in fewer demands on the Operators, Inspectors, and Maintenance Personnel. It will cut time and costs from your manufacturing or maintenance process.

Safe-T-Cable may be substituted for safety Lockwire to prevent loosening of threaded parts in accordance with the performance requirements of SAE specifications AS4536, AS3509, AS3510 and AS3511.

The Safe-T-Cable system involves three components: the calibrated tool, pre-assembled cables, and individual crimp ferrules. The cables have a square formed end cap securely attached to one end to provide a positive stop when threaded through a fastener. The other end is electrically fused so it will easily thread through the series of fasteners to be secured. The ferrules are preloaded into a disposable cartridge which allows convenient transportation, storage, and availability. The Safe-T-Cable tool tensions the cable, crimps the ferrule onto the cable, and cuts the cable flush with the ferrule. This system, when properly used, eliminates the possibility of Foreign Object Damage (FOD).

Safe-T-Cable is constructed of high tensile strength, stranded cable. It is more flexible than its Lockwire counterpart, although the working diameters are equivalent. This provides a stronger assembly

and lighter weight. Safe-T-Cable is available in four nominal diameters: .022 inch diameter, .032 inch diameter, .040 inch diameter, and .062 inch diameter.

For more detailed information, qualifications, and specifications, contact DMC at (407) 855-6161 or visit our web site at www.DMCTools.com.

Benefits of Safe-T-Cable

- Reduces installation time
- Allows access to tight areas
- Is quickly learned
- Reduces operator error
- Is stronger than wire
- Is quickly inspected
- Improves FOD control
- Reduces need to rework
- Eliminates injuries from sharp wire ends



Step 1 - Thread

A cable assembly is threaded through the fasteners in a direction that exerts a positive pull on the fastener when tension is applied.



Step 2 - Insert

Simply thread the cable through the ferrule and the tool nose.



Step 3 Tension

Correct tension is applied.



Step 4 - Crimp & Cut

The ferrule is firmly crimped and the cable is cut flush with the end of the ferrule.