



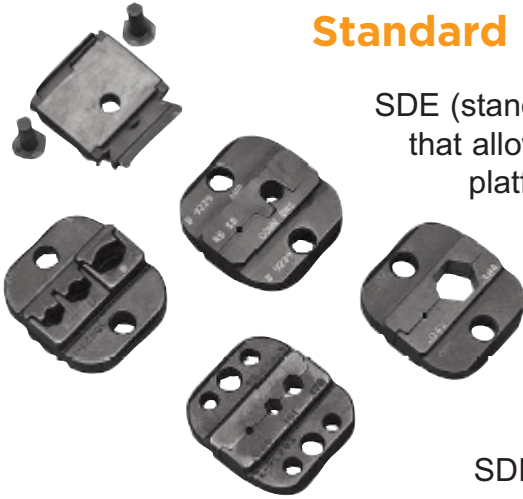
SDE Standard Die Envelope Crimp Tooling

Standardize Your Crimp Tooling

These versatile hand tools and dies are ideally suited for R & D, networking applications and on-site maintenance work.

- User-adjustable ratchet control for a complete crimping cycle
- Emergency ratchet release
- Angled head, providing a comfortable hand and wrist position
- Over 100 interchangeable SDE die sets for crimp a broad range of connectors
- Able to handle multiple wire and terminal sizes in one die set

Standard Die Envelope Crimp Tooling



SDE (standard die envelope) is a new, flexible approach to crimp tooling, that allows use of the same dies on tooling across a range of application platforms. Dies are interchangeable in tools from portable hand tools—manual or battery-powered—to pneumatic hand tools and electric bench terminators. It's a family of tools that you can take from bench to production or into the field, without the need for dies fitted to each kind of tool.

You can be sure your dies will fit your long-term needs, because they are completely compatible with all tools in the SDE system. They move with you as your needs grow.



PRO-CRIMPER III Hand Tool, Part No. 354940-1 (frame only)

Put it to work in the lab, factory, or field. The PRO-CRIMPER III Hand Tool is ideally suited for R&D prototyping, networking applications, and commercial, industrial, and institutional maintenance work.

- Enhanced ergonomics, with a thin, comfortable handle profile
- Exceptional quality and crimp performance at an affordable price
- Manufactured with precision stamping that permits close tolerance controls on critical parts, for better performance and repeatability
- Improved tool geometry for a longer life, stronger tool frame
- Fits industry's largest selection of crimp die options



SDE PEW 12 Hand Tool Part No. 9-1478240-0 (frame only)

The unique geometry of this tool results in a comfortable, easy-to-use handle design that is unmatched in the market.

- Large crimp jaw arc, minimizing "roll" in open barrel applications
- Easy accessibility for space-constrained applications
- User-adjustable ratchet control and emergency ratchet release



SDE DA Hand Tool Part No. 1213745-1 (frame only)

This tool is specifically designed for closed barrel SDE dies. It incorporates all the convenient operational features of the SDE family.

- Excellent mechanical advantage, enhancing user comfort
- Adjustable ratchet with emergency release

Put SDE Versatility to Work

Meet the fast-changing requirements of today's manufacturing with the flexibility in the SDE tooling family.



Battery Crimp Tool Kit Part No.1725837-1 (PIDG/SOLISTRAND); Part No. 1213890-1 (Open Barrel)

Take automatic crimping away from the bench to the product, with this convenient, portable, battery-operated tool. It's at home in the factory or in the field.

- Alloy steel crimp head, not aluminum
- Completely portable—performs about 100 crimps per charge
- Terminates wires to 10 AWG [6 mm²]
- Weighs only 1.57 kg [3.46 lb] including battery; 360 mm [14.2 in] long
- Pressure-sensitive cycle control
- Kit includes tool, 2 batteries, and charger



6-26 Pneumatic Tool System Part No. 1213855-1 (6-26 SDE "Kit" includes Hand Pneumatic Power Unit, Ratcheted Tool Holder, SDE Adapter)

This versatile system provides the ultimate in wire range flexibility for higher volume operation.

- Available with a jaw adapter compatible with all dies in the SDE family, and offering a full range of adapters for other applications.
- Hand- or foot-operated configurations, with ratchet control
- Also available with integral die options that terminate up to #6 SOLISTRAND terminals
- Power unit available for sale or lease



SDE Electric Terminator Part No. 1490076-2

This small benchtop power unit is well suited for low- to medium-volume bench production and harness assembly operations.

- Terminates wires to 10 AWG [6 mm²]
- Compact footprint to fit into tight production spaces: 390 x 260 x 200 mm [15.5 x 10 x 8 in]
- Foot-actuated, including a jog cycle; crimp height adjustment
- Models available for 110 V or 220 V

Connector/Terminal-to-Tool Reference

Product Family	Catalog Number ¹	AMP® Product	RG/U Cable ² Wire Size	Termination Type/Style	Part Number		
					P/N 354940-1 with SDE Die Set	SDE Die Set Only	
Coaxial Connectors	82074	50 Ohm BNC and TNC	RD 316, 180, 195, Belden 8218	"O"/Commercial	—	58539-1	
			58, 62, 59	"O"/Commercial	58433-1	58435-1	
			Belden 9248, 9114	Hex/Commercial	58433-2	58436-1	
			174, 188, 316, 179, 161, 187	"O"/Commercial	—	58539-1	
			62, 59	"O"/Commercial	318450-1	318450-2	
		50 Ohm BNC	Belden 9907, 89907, Comm/Scope 2104	"O"/Commercial	318452-1	318452-2	
			174, 188, 316, 179, 161, 187	Hex/Commercial	—	58436-3	
			62, 59, Belden 9104, 9112	"O"/Commercial & Military	—	58537-1	
			Belden 8281, 9141	Hex/Commercial	—	58436-2	
			180, 195, Belden 8218, 9248, 9114	"O"/Commercial & Military	—	58538-1	
				"O"/Commercial	—	58539-1	
			58	"O"/Military	—	220189-3	
		75 Ohm BNC and TNC	62, 59	"O"/Commercial	—	58536-1	
			6, Belden 8281	"O"/Commercial	—	58538-1	
		75 Ohm BNC	179, 161, 187	"O"/Commercial	318451-1	318451-2	
				Hex/Commercial	58531-2	58425-2	
			62, 59	Hex/Commercial	58531-1	58425-1	
			Double Braid 59, Belden 8281, 9141	Hex/Commercial	58531-3	58425-3	
			Belden 9248, 9114	"O"/Commercial	—	58536-1	
		50 and 75 Ohm BNC	Belden 8218	"O"/Commercial	—	58174-1	
			6, Belden 8281	"O"/Commercial	—	58538-1	
		50 Ohm N	58, 62, 59	Hex/Commercial	58433-2	58436-1	
			8, 213, 11, 216, 9, 214	Hex/Commercial	58501-1	58485-1	
		Miniature UHF	58	Dual Crimp	58506-3	220196-1	
		50 Ohm SMB	174, 316, 188, 179, 161, 187, RD 316, 188 Double Braid	Hex/Commercial	58500-1	58489-1	
				Hex/Military	58499-1	58483-1	
		50 and 75 Ohm Consumer BNC	178, 196, 174, 316, 188, 179, 161, 187	Hex/Commercial	—	58046-1	
			58, 62, 59	"F" / "O"	58558-1	58558-2	
		Series F CATV Plugs	174, 316, 188, 179, 161, 187	"F" / "O"	58559-1	58559-2	
				58, 6, 7 6.6, 8.2, 9.8 [0.259, 0.324, 0.384] Dia.	Hex/Commercial	58621-1	58621-2
				59, 6, 7 7.4, 8.7 [0.290, 0.343] Dia.	Hex/Commercial	58622-1	58622-2
		Braid-Pic Braid Termination	58, 6, 7 9.1 [0.360] Dia.	Hex/Commercial	58663-1	58663-2	
58, 62, 59	—			220195-1			
Terminals And Splices	82042	Insulated Terminals and Splices (PIDG and PLASTI-GRIP)	22-16 AWG [0.3-1.3 mm ²]	—	58433-3 ³	58423-1 ³	
			16-14 AWG [1.3-2.0 mm ²]				
			12-10 AWG [3.0-5.0 mm ²]				
	65505	Uninsulated Terminals and Splices (SOLISTRAND)	22-10 AWG [0.3-5.0 mm ²]	—	58546-1	58545-1	
			65472	Closed End Splices	ECV-ECN 18-16 AWG [0.8-1.3 mm ²]	—	217212-1
	ECN 18-10 AWG [0.8-5.0 mm ²]						
ECV-ECN 18-10 AWG [0.8-5.0 mm ²]							
Receptacles and Tabs	82004	FASTON 250 Series Recpt.	18-14 AWG [0.8-2.0 mm ²]	—	58524-1	58524-2	
			14-10 AWG [2.0-5.0 mm ²]	—	58525-1	58525-2	
		Ultra-Fast FASTON (Straight)	0.110/0.125 in. Recpt.	26-14 AWG [0.13-2.0 mm ²]	—	58628-1	58628-2
			0.187/0.250 in. Recpt., 0.250 in. Tabs		—	58628-1	58628-2
		0.250 in. Recpt.	12-10 AWG [3.0-5.0 mm ²]	—	58630-1	58630-2	

¹ Request catalog for detailed product information.

² Coaxial cable of similar size can be crimped. Request Catalog 82074 for a complete listing of possible cable sizes.

³ Not for use with PIDG FASTON receptacles; crimp not approved by UL or CSA.

Need More Information?

Tyco Electronics Corporation, Harrisburg, PA 17105, Phone: 888-777-5917
or 717-810-2080; email: toolingsales@tycoelectronics.com

For drawings or technical data, contact your Tyco Electronics sales engineer or call the Technical Support Center: 1-800-522-6752. Dimensions are in millimeters unless specified otherwise. Values in brackets are English equivalents unless specified otherwise. Specifications subject to change. Consult Tyco Electronics for latest specifications.

Connector/Terminal-to-Tool Reference (continued)

Product Family	Catalog Number	AMP® Product	Cable or Wire Size	Part Number	
				P/N 354940-1 with SDE Die Set	SDE Die Set Only
Fiber Optic Connectors	82164 and 296355	FSMA and ST-Style (S.S.) Connectors (504XXX Series only)	3.0 mm Jacket Dia.	58551-1*	58552-1
		ST-Style, FC Type, D4 and AMP® SC Connectors	3.0 mm Jacket Dia.	58433-4*	58424-1
		ST-Style (Ceramic) Connectors	3.8 mm Jacket Dia.	—*	503890-1
		FC Type and AMP® SC Connectors (Next Generation)	3.0 mm Jacket Dia.	503911-1**	503910-1
		FSD, FSD MC and RSD Connectors; FSD Breakout Kit	DUALAN and LDD	58519-1*	58510-1
		LightCrimp XTC Connectors Ceramic/Polymer/S.S.)	3.0 mm Jacket Dia.	503568-1*	503567-1
	LightCrimp SC (Ceramic) Connectors	3.0 mm Jacket Dia.	503699-1*	503698-1	
	1307099	LightCrimp Plus ST-Style AMP® SC	3.0 mm Jacket Dia.	492623-1***	492622-1
—	Multimate Contacts	1 mm Plastic Fiber, 2.2 mm Jacket Dia.	217211-1	217211-2	
Pin and Socket Connectors	82068	D-Subminiature 20 DF Pin and Socket Contacts (AMPLIMITE)	28-24 AWG [0.08-0.2 mm ²]	58448-2	58448-3
			24-20 AWG [0.2-0.6 mm ²]		
		D-Subminiature 22 DF Pin and Socket Contacts (AMPLIMITE)	28-22 AWG [0.08-0.3 mm ²]	90800-1	90800-2
			Type II Pin and Socket Contacts		
		Type III+ and Type VI Pin and Socket Contacts	28-24 AWG [0.08-0.2 mm ²]	58495-1	58495-2
			24-20 AWG [0.2-0.6 mm ²]		
	18-16 AWG [0.8-1.4 mm ²]	0.093 Soft Shell Commercial Pin and Socket Contacts	24-18 AWG [0.2-0.9 mm ²]	90872-1	90872-2
			20-14 AWG [0.6-2.0 mm ²]	90871-1	90871-2
	0.062 Soft Shell Commercial Pin and Socket Contacts	30-24 AWG [0.05-0.2 mm ²]	90870-1	90870-2	
		24-18 AWG [0.2-0.9 mm ²]	90869-1	90869-2	
	MR Pin and Socket Contacts	26-18 AWG [0.13-0.9 mm ²]	58514-1	58514-2	
		24-18 AWG [0.2-0.9 mm ²]	90548-1	90548-2	
	82181	Universal MATE-N-LOK II and Universal MATE-N-LOK Pin and Socket Contacts	20-14 AWG [0.6-2.0 mm ²] 1.52-3.30 [0.060-0.130] Ins. Dia.	90546-1	90546-2
			20-14 AWG [0.6-2.0 mm ²] 3.30-5.08 [0.130-0.200] Ins. Dia.	90547-1	90547-2
		Mini-Universal MATE-N-LOK Pin and Socket Contacts	12-10 AWG [3-5 mm ²]	58530-1	58530-2
			26-22 AWG [0.13-0.3 mm ²]	90758-1	90758-2
	Commercial MATE-N-LOK Pin and Socket Contacts	22-18 AWG [0.3-0.9 mm ²] or Two 22 AWG	90759-1	90759-2	
		20-16 AWG [0.6-1.4 mm ²] or Two 20 AWG	90760-1	90760-2	
24-18 AWG [0.2-0.9 mm ²]	24-18 AWG [0.2-0.9 mm ²]	90574-1	90574-2		
	20-14 AWG [0.6-2.0 mm ²]	90575-1	90575-2		
Receptacle and Tab Connectors	—	Dynamic Series D-3 Contacts	24-20 AWG [0.2-0.56 mm ²]	90683-1	90683-2
			20-16 AWG [0.5-1.42 mm ²]	90684-1	90684-2
	65481	CST-100 Contacts	26-22 AWG [0.13-0.3 mm ²]	58517-1	58517-2
			AMPSEAL Automotive Receptacles	20-16 AWG [0.5-1.25 mm ²]	58529-1
	124962	AMP SUPERSEAL 1.5 SERIES Contacts	0.5-1.5 mm ²	58583-1	58583-2
			EI Series Receptacle Contacts	26-20 AWG [0.13-0.6 mm ²]	58548-1
Universal Power Contacts	26-16 AWG [0.13-1.4 mm ²]	58564-1	—		
	Modular Plugs (10 Pos.)	28-24 AWG [0.08-0.2 mm ²] [†]	58560-1	58560-2	
Modular Plug Strain Relief		5.08 [0.200] Max. Ins. Dia.	—	852681-1	
	PC Card Connectors	65701	INFOPORT Series III Shield Kit	3.43-3.81 [0.135-0.150] Ins. Dia.	224933-1
Universal Data Connector Kits	82164	AMP® Crimp Ring	Type 1, 2, 6, 9 and MONTROSE	—	58450-1

Request catalog for detailed product information.

[†] Terminates cable with 24 AWG [0.2 mm²] conductors with 0.039 [0.99] Max. O.D.

* Tool Frame Part No. 58532-1.

** Tool Frame Part No. 58588-1.

*** Tool Frame Part No. 58532-2.

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Specialty Hand Tools and Accessories

Premium SDE Dies — when used in combination with the proper connectors, meet all applicable Tyco termination and performance requirements

Part No. ¹	Description
91900-1	Fiber Optic
91901-1	BNC RG 55B
91902-1	N Series RG 141
91903-1	TNC RG 59
91904-1	Coax RG 187
91904-2	Coax RG 59,62
91904-3	Coax RG 55
91904-4	Coax RG 58
91905-1	ARINC 3 crimp
91907-1	ARINC #8 Triax
91908-1	SMA RG 188, 58
91909-1	BNC Coax
91910-1	Coax RG 187
91911-1	Coax RG 187
91911-2	Coax RG 180
91911-3	Coax
91911-4	Coax
91912-1	Coax
91912-3	Mini Coax
91912-5	Mini Coax

Part No. ¹	Description
220189-1	Comm BNC, RG 58
220189-2	Comm BNC, RG 59
220189-3	Comm BNC
1424050-1	BNC
91963-2 ²	Premium PIDG Die Assy, 16-14 AWG (Same as crimp form in 47387)
91964-2 ²	Premium PIDG Die Assy, 22-16 AWG (Same as crimp form in 47386)
91965-2 ²	Premium PIDG Die Assy, 12-10 AWG (Same as crimp form in 59239-4)

1. Premium coax SDE die set only. Requires additional hand tool or power source.
2. These die options provide the same crimp profiles as those provided in our CERTI-CRIMP hand tool line and include adjustable insulation. The CERTI-CRIMP options have attained MIL-T-7928 qualification, when used with the correct terminals.

Hand Tool Kits

AMP specialty hand tools are available in convenient kits that contain the tooling, terminations, and spare parts you need for your crimping operations.

PRO-CRIMPER III Hand Tool PIDG and PLASTI-GRIP Terminal Kit, Part No. 55823-1

Includes hand tool (Part No. 58433-3), 225 insulated ring and spade terminals in 12-10, 16-14 and 22-16 AWG [3.0-5.0, 1.3-2.0 and 0.3-1.3 mm²] wire sizes.



BNC Premises Wiring Kit, Part No. 58477-1

Includes hand tool (Part No. 58433-1); plugs—5 RG-58, 10 RG-59/62, 5 RG-58 plenum and RG-59/62 plenum sizes; adapters—2 jack-to-jack and 2 “T”.



Carrying Case (Empty), Part No. 679223-1

Includes two empty storage boxes for die sets.

PRO-CRIMPER III Hand Tool Repair Kit, Part No. 679221-1

Includes retaining rings, handle return spring, pawl spring, pivot pins, pawl pin, ratchet pawl, die pins, nut and die set screws.



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Non-Tyco Electronics Crimp Applications

Connector/Terminal-to-Tool Reference				
Manufacturer	Terminal	Wire Size	Part Number	
			P/N 354940-1 with SDE Die Set	SDE Die Set Only
T&B	Sta-Kon Nylon and Vinyl Insulated Terminal and Splices	22-10 AWG [0.3-5.0 mm ²]	58433-3	58423-1
	Sta-Kon Uninsulated Terminals and Splices	22-10 AWG [0.3-5.0 mm ²]	58546-1	58545-1
Panduit	Pan-Term Nylon and Vinyl Insulated Terminals and Splices	22-10 AWG [0.3-5.0 mm ²]	58433-3	58423-1
	Pan-Term Uninsulated Terminals and Splices	22-10 AWG [0.3-5.0 mm ²]	58546-1	58545-1
Molex	Insulkrimp Vinyl Insulated Terminals and Splices	22-10 AWG [0.3-5.0 mm ²]	58433-3	58423-1
	Avikrimp Nylon Insulated Terminals and Splices	22-10 AWG [0.3-5.0 mm ²]	58433-3	58423-1
	Versakrimp Uninsulated Terminal and Splices	22-10 AWG [0.3-5.0 mm ²]	58546-1	58545-1
	20 DF Sub-D	28-20 AWG [0.08-0.5 mm ²]	58448-2	58448-3
	.062 Dia.	24-18 AWG [0.2-0.8 mm ²]	90869-1	90869-2
		30-24 AWG [0.05-0.2 mm ²]	90870-1	90870-2
.093 Dia.	20-14 AWG [0.5-2 mm ²]	90871-1	90871-2	
	24-18 AWG [0.2-0.8 mm ²]	90872-1	90872-2	

Note: All terminals are crimped to UL 486 tensile requirements.

Custom Tooling – If What You Need Isn't in Our Catalog

While we offer die sets for thousands of terminal and wire combinations, in most cases our engineering capability allows us to create a custom die set to meet your specific requirements, with the same high quality as our standard products. You can take advantage of the same portability across platforms with the custom die sets as for a standard die set. And since we know that custom requirements often arise during the prototyping stage of your product development, a time when you can't afford to wait for normal engineering cycles for custom tooling, we've set up a special rapid response program.

Take advantage of this service. Talk to us with your non-standard tooling requirements. Sometimes we can even point you to an existing solution. If not, we'll find a way to get you back on your prototype or production path. Just fill out a custom order form, and give it to your local Tyco Electronics sales person or e-mail to TETooling@tycoelectronics.com.

You can find the form at tooling.tycoelectronics.com/hand_tool.asp under SDE Standard Die Envelope.

A simple form gets you started toward the custom tooling you need.

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Wire Preparation

Manual Wire Preparation — A full selection of manual wire strippers complement these tools, providing a complete solution for convenient, correct wire termination.

Standard Stripping Tools

Coax Stripper, 1490490-1

- 3 blades designed to strip RG-6, RG-58, RG-59 cable in one step
- Replaceable blade cartridges



Cyclops Cable Stripper, 1375317-1

- Outer sheath stripper
- Automatically adjusts to different cable thicknesses
- Works on cable diameters up to 11 mm [0.43 in]



Economy Wire Stripper and Cutter, 1490491-1

- Strips 10-24 AWG [5.26-0.2 mm²]
- Adjustable to any of 8 wire sizes



Rotary Cable Stripper, 606700-1

- Round cable tool can be used on single- or multiple-conductor cable up to 44.5 mm [1.75 in]



Automatic Wire Stripper, 734185-1

- Strips PVC, THHN, and THHW
- Adjustable wire stop
- Built-in cutter
- Strips 10-28 AWG [5.26-0.09 mm²]



Electric Wire Preparation — A full selection of electric wire strippers complement these tools, providing a complete solution for convenient, correct wire termination.

Cosmic 32M Electric Wire Stripper, Part No. 5-528367-3

- Strips 32-12 AWG [0.3mm²-3.0mm²], with digital stripping diameter display and a sensitive wire-tip touchsensor for easy operation
- Electrically powered



Cosmic 60R Rotary Jacket Stripper, Part No. 1-528367-3

- Strips 14-5 AWG [2.5mm²-16mm²], multi-conductor or single cable
- Electrically powered



Cosmic 927R and 927RX Micro-Cable Strippers, Part No. 5-528367-1 (927R); Part No. 5-528367-4 (927RX)

- For conductor diameter 36 AWG to 10 AWG [0.11mm to 3.5mm], for various insulation materials and micro-cable.
- Electrically powered
- The Cosmic 927RX shares the features of the Cosmic 927R but is recommended for hard to strip insulations.



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Our commitment. Your advantage.