



HARNESS REPAIR PRODUCTS

EVERYTHING YOU NEED TO HELP
KEEP HARNESSSES MISSION READY

QUICK REFERENCE GUIDE

Flexible

- Convenient permanent or temporary repairs to restore the harness
- Rugged solutions matched to your application hazards

Fast and Easy

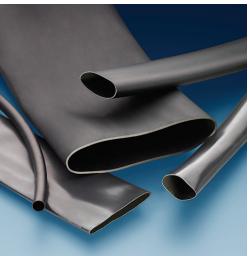
- Complete line for quick, effective field repairs
- Repair conductors, jackets, bundles, shields, and backshells

Wire and Conductor Repair

Product Family	Description	Standards
	MiniSeal Splices D-436-XX D-200-XX	Sealed wire-to-wire crimp splice SAE AS81824/1 SAE AS81824/11 Pending
	In-Line Sealed Crimp Splices W-096-XX	Sealed wire-to-wire crimp/solder splice EN3373-001 & 013
	SolderSleeve Shield Terminators S-200-XX	Silver/nickel braid termination SAE AS83519/5 Pending
	SolderSleeve Splices D-1744-XX	Sealed wire-to-wire solder splice NAS 1744
	RF One-Step Connectors RBD-XX-X-XX RTD-XX-X-XX	Solder termination Meets performance requirements of MIL-C-39012 up to 2.8 GHz
	Data Bus Splice Kit D-150-0708-5	MIL-STD-1553b Data Bus USAF 8340708
	SolderShield Splices D-150-0XXX	Shielded splice for coax and twisted pairs
	SolderShield Splices D-155-XXXX	Shield-only splice
	Cold Applied Splices D-436-3X-COLD	Gel sealed in-line butt crimp SAE AS81824/12
	C-Wrap Repair Sleeves D-150-C-1X	Jacket repair wrap SAE AS6224/1 pending
	Rayseal Repair Sleeves D-260-C-X	Jacket repair wrap SAE AS6224/2 in process
	SolderTacts Coax Contacts D-602-0140 Pin D-602-0141 Socket	One-piece solder contact MIL-DTL-38999 Series I thru IV M39029/76 and 77
	DEUTSCH Crimp Contacts 38943-2238941-22	Crimp Contact (Size 22) M39029/56-348 Socket M39029/58-360 Pin MIL-DTL-38999 Series I thru IV M39029/56 & 59
	SOLISTRAND Splices	Butt or inline crimp splice MIL-T-7928 T Type 1, Class 1 & 2
	STRATO-THERM Splices	High-temp splice
	COPALUM Splices	Butt or inline crimp splice for copper or aluminum
	LightCrimp Fiber Optic Splices	Fiber-optic field splice 250/ 900 um buffered fiber 1.8/2.0 mm jacket

Features	Max. Temperature	Temporary / Permanent	Re-Enterable / Re-Workable	Side Entry	Installation Practices & Instructions	Tooling
High temperature Sealed Immersion resistant 26 thru 12 AWG	150°C 200°C	Perm	—	—	RCPS-200-20	AD-1377 Heat gun
High temperature Immersion resistant 26 thru 12 AWG	260°C	Perm	—	—	RPIP-685-00	AS-1377-5 Heat gun
High temperature Seals to PTFE	200°C	Perm	—	—	RCPS-100-71	Heat gun
Sealed Immersion resistant 26 thru 12 AWG	150°C	Perm	—	—	RPIP-850-00	Heat gun
Excellent strain relief Sealed	150°C	Perm	3	—	RPIP-683-00	Heat gun
Sealed EMI resistant	150°C	Perm	—	—	RPIP-600-12	AD-1377 Heat gun
Sealed EMI resistant	150°C	Perm	—	—	RCPS-150-02	AD-1377 Heat gun
Sealed EMI resistant	150°C	Perm	—	—	c/w drawing	Heat gun
Sealed Altitude immersion No heat gun required 26 thru 12 AWG	150°C	Perm	—	—	RPIP-1102	AD-1381-1
Sealed 26 thru 12 AWG	150°C	Perm	—	3	RPIP-1101	Heat gun M81969/8 removal tool
Sealed 10 AWG thru 4/0 AWG	260°C	Perm	—	3	RPIP-1106	CV2014 Heat gun PR-38 Reflector
Unsealed	150°C	Perm	—	3	ES61226	Heat gun AD-1565 fixture
Unsealed	125°C	Perm	—	—	Crimp tool specific	Crimp tool
Unsealed 26 thru 2 AWG 1/0 AWG thru 600 MCM	170°C	Perm	—	—	Crimp tool specific	Various crimp
Unsealed 22 thru 10 AWG	649°C	Perm	—	—	Crimp tool specific	Various crimp
Unsealed Dry crimp 8 thru 3/0 AWG aluminum 10 thru 2/0 AWG copper	150°C	Perm	—	—	Crimp tool specific	Various crimp
Sealed	70°C	Perm	—	—	408-10193	Kit

Bundle and Shield Repair

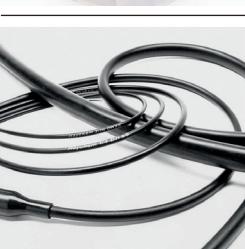
Product Family	Description	Standards
	High-Shrink-Ratio Tubing RP-4800-XX High-Shrink-Ratio Flexible Tubing HRHF-XX High-Shrink-Ratio Tubing HRHT-XX Ultra-High-Shrink-Ratio Tubing URHT-XX	4:1 shrink ratio 5.5:1 shrink ratio 5.5:1 shrink ratio Up to 8:1 shrink ratio
		VDE 0341 PT 9005 Part A SAE AMS-DTL-23053/5 SAE AMS-DTL-23053/15 (except some sizes) UL E85381
	RayOLOn Roll-On Sealing Sleeves LNCL-XX-XXX	Roll-on sleeve
	RayRim Edging Material	Protective, self-adhering edging profile
	Side-Entry Bushing SEB-XX	Coiled bushing
		SAE AMS-DTL-23052/10 MIL-PRF-46846 Type II Class 1
	RayBraid Tubular Copper Braid Ray101-XX (tin plated) Ray103-XX (nickel plated) LWB-10X-XX (lightweight)	Copper braid over plastic former
	Electrical Shielding Tape 000W280	Shielded gauze tape
	INSTALITE Cable Bundle Management Sleeves CBMS-XX-P	Low friction, light weight system for open wire bundle management
		RW3042

Backshell Terminations

Product Family	Description	Standards
	Wrap-Around Heat-Shrink Boot 209W2XX-XX	Zipper termination spine Allows repair when there is no access to end of harness
	Tinel-Lock Splice TXS51-XX	Split metal ferrule, for bandstrap shield splice
	HexaShield Adapters Hex-XX....	Metal ferrule individual shield terminations
	Bandstrap BND-1225S	Steel straps, nickel or cadmium plated
	Side-Entry Tinel Ring SETR-XX	Split Tinel Ring shield termination

Features	Max. Temperature	Temporary / Permanent	Re-Enterable / Re-Workable	Side Entry	Installation Practices & Instructions	Tooling
High temperature Sealed & Unsealed	135°C	Perm	3	—	COP551	Heat gun
High temperature Sealed & Unsealed	135°C	Perm	3	—	COP551	Heat gun
High temperature Sealed & Unsealed	135°C	Perm	3	—	COP551	Heat gun
High temperature Sealed & Unsealed	135°C	Perm	3	—	COP551	Heat gun
Reusable Nonshrink Gel strips for sealing NSN listed	70°C	Perm & Temp	3	—	TUS-41-3007	—
Edge protection	80°C	Perm	3	3	PIP-067	Heat gun
Side entry	180°C	Perm	3	3	N/A	—
Pull on Add heat shrink tubing for sealing Alternative to braiding machine	150°C 200°C	Perm	3	—	COP361	—
Tinned copper Wrapping transitions	150°C 200°C	Perm	3	3	—	—
Very lightweight Easy to install Uses standard termination equipment/method Low friction	150°C	Perm	—	—	ELE-3COP-365	Available
Features	Max. Temperature	Temporary / Permanent	Re-Enterable / Re-Workable	Side Entry	Installation Practices & Instructions	Tooling
	200°C	Perm	—	3		Heat gun
Two piece Midpoint shield butt splice	150°C to 200°C	Perm	3	3		Banding tool
Midpoint shield butt splice	150°C to 200°C	Perm	3	—		Tinel heat tool
Overall shield termination	150°C to 200°C	Perm	3	—		Torque tool
Easy replacement of shield termination	150°C to 200°C	Perm	3	3		Banding tool
Notch engagement Easy replacement of Tinel Ring	150°C to 200°C	Perm	3	3		Tinel heat tool

Jacket Repair

Product Family	Description	Standards
	High-Temp Heat-Shrink Tape RT-555-TX.X-A260-XX	High-temperature, side-entry, shrinkable repair tape RT-1381
	Self-Amalgamating Tape S-1081	Bonds to itself RK-6019
	Silicone Fusion Tape 608036	
	Chemical- and Abrasion-Resistant Heat-Shrink Tubing DR-25 High-Temperature Heat-Shrink Tubing RT-555-XX Semiflexible Dual-Wall Heat-Shrink Tubing HTAT-XX	2:1 shrink ratio 2:1 shrink ratio 4:1 shrink ratio Hotmelt adhesive SAE AMS-DTL-23053/16 VG95343 Part 5 Type D DEF STAN 59-97 Issue 3 RT-555 SAE AMS-DTL-23053/16
	Heat-Shrink Molded Parts AT-099-XX INSTALITE	High shrink ratio Elastomer sleeve MIL-S VG95343 VG95343/XX AS85049/XX
	Helical Convolex Conduit Tubing HCTE	High temperature, fluid resistant Conduit, nonheat shrink VG96936 Part 6 RT-1162
	COPALUM Splice Cover RT-555-XXX-YYY-A287	High-temperature, heat-shrinkable, fluid-resistant sealing sleeves FAR Part 25 FAA Standard
	Wrap-Around Marker WM-SCE	Wrap around heat-shrink identification marker
	S1260 Adhesive Tape	Fast, permanent repair to high temperature PTFE jacket RT-1050/29
	Epoxy Adhesive S-1125	Two-component liquid Sealing and mechanical bonding VG95343/15 RK-6619
	Hotmelt Adhesive Tape S-1048	Sealing and mechanical bonding RT-1050/3
	Conductive Epoxy S-1184	Two-component liquid Sealing and mechanical bonding RK-6627
	Shrink Tape T-DR-25	No adhesive Sealing and mechanical bonding

Features	Max. Temperature	Temporary / Permanent	Re-Enterable / Re-Workable	Side Entry	Installation Practices & Instructions	Tooling
High temperature Sealed Fluids resistant Altitude immersion Moderate peel strength	200°C	Perm	3	3	TUS-41-3032	Heat gun PTFE tape
Supplement with adhesive at ends for sealing	130°C	Perm & Temp	3	3	ELE-3COP-606 c/w data sheet HSL#04146	Heat gun
High temperature sealing Low peel Supplement with heat shrink tubing for mechanical protection	200°C	Temp	3	3	408-9716	N/A
Sealing, strain-relief Mechanical protection Supplement with adhesive	150°C	Perm	3	—	ELE-3COP-551 PIP-068 COP551TUS-41-3024	Heat gun
High temp Mechanical protection Supplement with adhesive	200°C	Perm	3	—	ELE-3COP-551	Heat gun
Sealing, strain-relief	125°C	3	3	—	COP610	Heat gun
Sealing, strain-relief Heat-activated epoxy adhesive Refurbish back shell Anti-rotation	- 150°C	Perm	3	—	COP554	Heat gun
High temp Impact protection Flexing Supplement with shrink boots Supplement with adhesive	200°C	Perm	3	—	COP566	N/A
Sealed, high temp	200°C	3	3	—	TUS-41-3026	Heat gun
Adhesive lined Harness marking Any difficult to access area	135°C	3	3	3	411-121004	Heat gun PTFE tape Thermal printer
High temperature sealing Fluid resistance Seals to PTFE Cures with heat gun, no oven required	240°C	Perm	—	3	TUS-44-3039	Heat gun rated to 2200 W
Flexibility Potting High peel strength Room temp cure, no oven required	240°C	Perm	—	3	COP604	N/A
Flexibility High peel strength No curing Heat gun set Re-workable	120°C	Perm	3	3	COP607	Heat gun
Flexibility, Potting, Braid shield termination Low electrical resistance No heat, no solder, no clamping Supplement with structural/ sealing epoxy Caution with shelf life & storage	150°C	Perm	—	3	COP522 COP505	N/A
Flexibility Mechanical protection Nonself-amalgamating Supplement with adhesive for sealing and bonding	135°C	Perm	—	3	TDR25INSTALL	Heat gun

LET'S CONNECT

We make it easy to connect with our experts and are ready to provide all the support you need. Just call your local support number or visit www.te.com/industrial to chat with a Product Information Specialist.

Technical Support

te.com/support-center

North America	+1 800 522 6752	Asia Pacific	+86 400 820 6015
North America (Toll)	+1 717 986 7777	Japan	044 844 8180
EMEA/South Africa	+800 0440 5100	Australia	+61 2 9554 2695
EMEA (Toll)	+31 73 624 6999	New Zealand	+64 (0) 9 634 4580
India (Toll-Free)	+800 440 5100		

te.com/harnessrepair

COPALUM, C-Wrap, DEUTSCH, HexaShield, INSTALITE, LightCrimp, MiniSeal, RayBraid, RayOLOn, RayRim, Rayseal, SolderShield, SolderSleeve, SolderTacts, SOLISTRAND, STRATO-THERM, Tinel, Tinel-Lock, TE Connectivity and the TE connectivity (logo) are trademarks of the TE Connectivity Ltd. family of companies. Other products, logos, and company names mentioned herein may be trademarks of their respective owners.

While TE has made every reasonable effort to ensure the accuracy of the information herein, nothing herein constitutes any guarantee that such information is error-free, or any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. The TE entity issuing this publication reserves the right to make any adjustments to the information contained herein at any time without notice. All implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose are expressly disclaimed. The dimensions herein are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice.

Consult TE for the latest dimensions and design specifications.

© 2016 TE Connectivity Ltd. family of companies All Rights Reserved.

1-1773735-5 08/16