

HARNESS REPAIR PRODUCTS

EVERYTHING YOU NEED TO HELP KEEP HARNESSES MISSION READY

QUICK REFERENCE GUIDE

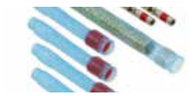
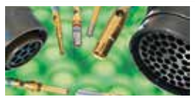
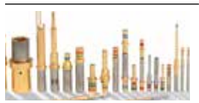
Flexible

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

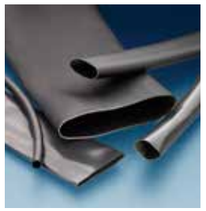
Fast and Easy

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

Wire and Conductor Repair

	Product Family	Description	Standards	Features	Max. Temperature	Temporary / Permanent	Re-Enterable / Re-Workable	Side Entry	Installation Practices & Instructions	Tooling
	**MiniSeal Splices** D-436-XX D-200-XX	Sealed wire-to-wire crimp splice	SAE AS81824/1 SAE AS81824/11 Pending	High temperature Sealed Immersion resistant 26 thru 12 AWG	150°C 200°C	Perm	–	–	RCPS-200-20	AD-1377 Heat gun
	In-Line Sealed Crimp Splices W-096-XX	Sealed wire-to-wire crimp/solder splice	EN3373-001 & 013	High temperature Immersion resistant 26 thru 12 AWG	260°C	Perm	–	–	RPIP-685-00	AS-1377-S Heat gun
	**SolderSleeve Shield Terminators** S-200-XX	Silver/nickel braid termination	SAE AS83519/5 Pending	High temperature Seals to PTFE	200°C	Perm	–	–	RCPS-100-71	Heat gun
	SolderSleeve Splices D-1744-XX	Sealed wire-to-wire solder splice	NAS 1744	Sealed Immersion resistant 26 thru 12 AWG	150°C	Perm	–	–	RPIP-850-00	Heat gun
	**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	Excellent strain relief Sealed	150°C	Perm	✓	–	RPIP-683-00	Heat gun
	**Data Bus Splice Kit** D-150-0708-5		MIL-STD-1553b Data Bus USAF 8340708	Sealed EMI resistant	150°C	Perm	–	–	RPIP-600-12	AD-1377 Heat gun
	**SolderShield Splices** D-150-0XXX	Shielded splice for coax and twisted pairs		Sealed EMI resistant	150°C	Perm	–	–	RCPS-150-02	AD-1377 Heat gun
	SolderShield Splices D-155-XXXX	Shield-only splice		Sealed EMI resistant	150°C	Perm	–	–	c/w drawing	Heat gun
	**Cold Applied Splices** D-436-3X-COLD	Gel sealed in-line butt crimp	SAE AS81824/12	Sealed Altitude immersion No heat gun required 26 thru 12 AWG	150°C	Perm	–	–	RPIP-1102	AD-1381-1
	**C-Wrap Repair Sleeves** D-150-C-1X	Jacket repair wrap	SAE AS6224/1 pending	Sealed 26 thru 12 AWG	150°C	Perm	–	✓	RPIP-1101	Heat gun M81969/8 removal tool
	**Rayseal Repair Sleeves** D-260-C-X	Jacket repair wrap	SAE AS6224/2 in process	Sealed 10 AWG thru 4/0 AWG	260°C	Perm	–	✓	RPIP-1106	CV2014 Heat gun PR-38 Reflector
	**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	Unsealed	150°C	Perm	–	✓	ES61226	Heat gun AD-1565 fixture
	**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	Unsealed	125°C	Perm	–	–	Crimp tool specific	Crimp tool
	**SOLISTRAND Splices**	Butt or inline crimp splice	MIL-T-7928 T Type 1, Class 1 & 2	Unsealed 26 thru 2 AWG 1/0 AWG thru 600 MCM	170°C	Perm	–	–	Crimp tool specific	Various crimp
	STRATO-THERM Splices	High-temp splice		Unsealed 22 thru 10 AWG	649°C	Perm	–	–	Crimp tool specific	Various crimp
	**COPALUM Splices**	Butt or inline crimp splice for copper or aluminum		Unsealed Dry crimp 8 thru 3/0 AWG aluminum 10 thru 2/0 AWG copper	150°C	Perm	–	–	Crimp tool specific	Various crimp
	**LightCrimp Fiber Optic Splices**	Fiber-optic field splice 250/ 900 um buffered fiber 1.8/2.0 mm jacket		Sealed	70°C	Perm	–	–	408-10193	Kit

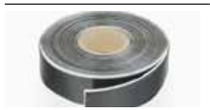
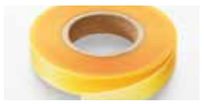
Bundle and Shield Repair

	Product Family	Description	Standards	Features	Max. Temperature	Temporary / Permanent	Re-Enterable / Re-Workable	Side Entry	Installation Practices & Instructions	Tooling
	**High-Shrink-Ratio Tubing** RP-4800-XX	4:1 shrink ratio	VDE 0341 PT 9005 Part A SAE AMS-DTL-23053/5	High temperature Sealed & Unsealed	135°C	Perm	✓	–	COP551	Heat gun
	High-Shrink-Ratio Flexible Tubing HRHF-XX	5.5:1 shrink ratio		High temperature Sealed & Unsealed	135°C	Perm	✓	–	COP551	Heat gun
	High-Shrink-Ratio Tubing HRHT-XX	5.5:1 shrink ratio	SAE AMS-DTL-23053/15 (except some sizes)	High temperature Sealed & Unsealed	135°C	Perm	✓	–	COP551	Heat gun
	Ultra-High-Shrink-Ratio Tubing URHT-XX	Up to 8:1 shrink ratio	UL E85381	High temperature Sealed & Unsealed	135°C	Perm	✓	–	COP551	Heat gun
	**RayOLOn Roll-On Sealing Sleeves** LNCL-XX-XXX	Roll-on sleeve		Reusable Nonshrink Gel strips for sealing NSN listed	70°C	Perm & Temp	✓	–	TUS-41-3007	–
	**RayRim Edging Material**	Protective, self-adhering edging profile		Edge protection	80°C	Perm	✓	✓	PIP-067	Heat gun
	**Side-Entry Bushing** SEB-XX	Coiled bushing	SAE AMS-DTL-23052/10 MIL-PRF-46846 Type II Class 1	Side entry	180°C	Perm	✓	✓	N/A	–
	**RayBraid Tubular Copper Braid** Ray101-XX (tin plated) Ray103-XX (nickel plated) LWB-10X-XX (lightweight)	Copper braid over plastic former		Pull on Add heat shrink tubing for sealing Alternative to braiding machine	150°C 200°C	Perm	✓	–	COP361	–
	**Electrical Shielding Tape** 000W280	Shielded gauze tape		Tinned copper Wrapping transitions	150°C 200°C	Perm	✓	✓	–	–
	**INSTALITE Cable Bundle Management Sleeves** CBMS-XX-P	Low friction, light weight system for open wire bundle management	RW3042	Very lightweight Easy to install Uses standard termination equipment/method Low friction	150°C	Perm	–	–	ELE-3COP-365	Available

Backshell Terminations

	Product Family	Description	Standards	Features	Max. Temperature	Temporary / Permanent	Re-Enterable / Re-Workable	Side Entry	Installation Practices & Instructions	Tooling
	**Wrap-Around Heat-Shrink Boot** 209W2XX-XX	Zipper termination spine Allows repair when there is no access to end of harness			200°C	Perm	–	✓		Heat gun
	Tinel-Lock Splice TXS51-XX	Split metal ferrule, for bandstrap shield splice		Two piece Midpoint shield butt splice	150°C to 200°C	Perm	✓	✓		Banding tool
	Tinel-Lock Splice TSR-XX	Metal ferrule for Tinel shield splice		Midpoint shield butt splice	150°C to 200°C	Perm	✓	–		Tinel heat tool
	**HexaShield Adapters** Hex-XX….	Metal ferrule individual shield terminations		Overall shield termination	150°C to 200°C	Perm	✓	–		Torque tool
	**Bandstrap** BND-1225S	Steel straps, nickel or cadmium plated		Easy replacement of shield termination	150°C to 200°C	Perm	✓	✓		Banding tool
	**Side-Entry Tinel Ring** SETR-XX	Split Tinel Ring shield termination		Notch engagement Easy replacement of Tinel Ring	150°C to 200°C	Perm	✓	✓		Tinel heat tool

Jacket Repair

	Product Family	Description	Standards	Features	Max. Temperature	Temporary / Permanent	Re-Enterable / Re-Workable	Side Entry	Installation Practices & Instructions	Tooling
	**High-Temp Heat-Shrink Tape** RT-555-TX.X-A260-XX	High-temperature, side-entry, shrinkable repair tape	RT-1381	High temperature Sealed Fluids resistant Altitude immersion Moderate peel strength	200°C	Perm	✓	✓	TUS-41-3032	Heat gun PTFE tape
	**Self-Amalgamating Tape** S-1081	Bonds to itself	RK-6019	Supplement with adhesive at ends for sealing	130°C	Perm & Temp	✓	✓	ELE-3COP-606 c/w data sheet HSL#04146	Heat gun
	**Silicone Fusion Tape** 608036			High temperature sealing Low peel Supplement with heat shrink tubing for mechanical protection	200°C	Temp	✓	✓	408-9716	N/A
	**Chemical- and Abrasion-Resistant Heat-Shrink Tubing** DR-25	2:1 shrink ratio	SAE AMS-DTL-23053/16 VG95343 Part 5 Type D DEF STAN 59-97 Issue 3	Sealing, strain-relief Mechanical protection Supplement with adhesive	150°C	Perm	✓	–	ELE-3COP-551 PIP-068 COP551TUS-41-3024	Heat gun
	High-Temperature Heat-Shrink Tubing RT-555-XX	2:1 shrink ratio	RT-555	High temp Mechanical protection Supplement with adhesive	200°C	Perm	✓	–	ELE-3COP-551	Heat gun
	Semiflexible Dual-Wall Heat-Shrink Tubing HTAT-XX	4:1 shrink ratio Hotmelt adhesive	SAE AMS-DTL-23053/16	Sealing, strain-relief	125°C	✓	✓	–	COP610	Heat gun
	**Heat-Shrink Molded Parts** AT-099-XX INSTALITE	High shrink ratio Elastomer sleeve	MIL-S VG95343 VG95343/XX AS85049/XX	Sealing, strain-relief Heat-activated epoxy adhesive Refurbish back-shell Anti-rotation	150°C	Perm	✓	–	COP554	Heat gun
	**Helical Convolex Conduit Tubing** HCTE	High temperature, fluid resistant Conduit, nonheat shrink	VG96936 Part 6 RT-1162	High temp Impact protection Flexing Supplement with shrink boots Supplement with adhesive	200°C	Perm	✓	–	COP566	N/A
	**COPALUM Splice Cover** RT-555-XXX-YYY-A287	High-temperature, heat-shrinkable, fluid-resistant sealing sleeves	FAR Part 25 FAA Standard	Sealed, high temp	200°C	✓	✓	–	TUS-41-3026	Heat gun
	**Wrap-Around Marker** WM-SCE	Wrap around heat-shrink identification marker		Adhesive lined Harness marking Any difficult to access area	135°C	✓	✓	✓	411-121004	Heat gun PTFE tape Thermal printer
	**S1260 Adhesive Tape**	Fast, permanent repair to high temperature PTFE jacket	RT-1050/29	High temperature sealing Fluid resistance Seals to PTFE Cures with heat gun, no oven required	240°C	Perm	–	✓	TUS-44-3039	Heat gun rated to 2200 W
	**Epoxy Adhesive** S-1125	Two-component liquid Sealing and mechanical bonding	VG95343/15 RK-6619	Flexibility Potting High peel strength Room temp cure, no oven required	240°C	Perm	–	✓	COP604	N/A
	**Hotmelt Adhesive Tape** S-1048	Sealing and mechanical bonding	RT-1050/3	Flexibility High peel strength No curing Heat gun set Re-workable	120°C	Perm	✓	✓	COP607	Heat gun
	Conductive Epoxy S-1184	Two-component liquid Sealing and mechanical bonding	RK-6627	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	–	✓	COP522 COP505	N/A
	Shrink Tape T-DR-25	No adhesive Sealing and mechanical bonding		Flexibility Mechanical protection Nonself-amalgamating Supplement with adhesive for sealing and bonding	135°C	Perm	–	✓	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

Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

TE Connectivity:

3-1393225-0 3631B101LL SMW73R0JT 2380312-2 650075-000 MPT100C18RF 1393431-1 1903112-2
2-292161-3 917696-1 936348-1 SBCHE64R7K 1-794222-0 2005330-1 TE50BR39J 141991-2 175977-2
1969656-1 2377783-2 CPF0402B37K4E1 ROX05SJ18R 1-962915-1 2310537-1 3430B2F51RTDF
RH73H2A40MKTN SBCHE154R7K 1743455-2 2834055-1 CRGCQ2010J3K3 U5254-000005-030PA