

SEALED ELECTRICAL SYSTEM

It's a Question of Integrity®



SEALED CRIMP CONNECTORS™



KRIMPA-SEAL™ PRODUCT LINE • SEALED FOR QUALITY

MINI ASSORTMENTS



NSPA-9002

STARTER ASSORTMENTS



NSPA-5002



NSPA-5003



NSPA-5003-T



NSPA-5003-UL

MAINTENANCE ASSORTMENTS



NSPA-1002



NSPA-1003



NSPA-1003-T



NSPA-1003-UL



NSPA-1130



NSPA-1184



NSPA-1185



NSPA-1185



NSPA-1202



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Krimpa-Seal™

Sealed for Quality



THE SEALED ELECTRICAL SYSTEM

The past few years have seen the advent of sweeping technological advances in the automotive, fleet, and marine industries. Many of these advances involve improved electrical systems, controlled by miniature onboard computers. Consequently, small variations in voltage can significantly affect vehicle performance.

To combat this problem, the major manufacturers in these industries are using completely sealed electrical systems. Unfortunately, the repair and maintenance industry is lagging behind. The integrity of sealed electrical harnesses is often breached when repairs are made with inferior, unsealed electrical connectors.

The heat shrink connector is the innovative solution that allows the aftermarket to keep pace with changing technology. Each repair made with a heat shrink connector is individually protected from corrosion, contaminants, and current leakage. This ensures that the original integrity of the wiring harness is maintained.



DIFFERENCES BETWEEN BUTTED, BRAZED & SEAMLESS CONNECTORS

BUTTED SEAM CONNECTORS

Formed when metal is stamped, rolled, and butted to create the connector barrel. Should only be used with stranded wire and must be crimped in the proper place to avoid opening the seam.

BRAZED SEAM CONNECTORS

Formed much like a butted seam, except the seam is brazed together with a silver alloy. May be used with solid wire and can be crimped on any side of the barrel without opening the seam.

SEAMLESS CONNECTORS

Generally only available for a butt connector or splice. The barrel is created from one seamless piece of metal. This eliminates problem of the barrel opening. May be used with solid wire.

BRAZED SEAM & SEAMLESS CONNECTOR ADVANTAGES

- Better wire contact
- Decreases repair costs
- Reduces equipment downtime
- Less voltage drop
- Prevents wiring failures
- Superior tensile strength
- Increases current flow

**WHENEVER POSSIBLE,
OUR KRIMPA-SEAL™ IS CONSTRUCTED
WITH BRAZED OR SEAMLESS CONNECTORS!**



Krimpa-Seal™ - Brazed
A perfect crimp every time!

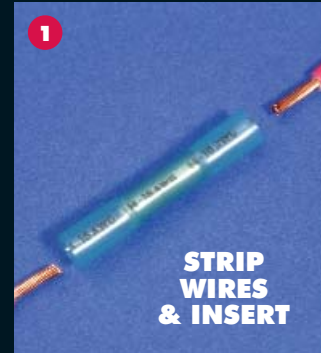


Competitor's "Crimp-and-Seal" - Butted
Seam often splits open.

FEATURES & BENEFITS

- Translucent, adhesive-lined polyolefin tubing
Allows visual inspection, prevents wire corrosion, and provides a waterproof seal
- Conforms to automotive manufacturers' specifications for wiring repairs
Necessary for maintaining electrical warranties
- Seamless butt connectors & brazed seam rings and spades
Prevent opening of connector barrel
- Color-coded tubing with wire gauge imprint
Provides easy identification of the correct part for the job
- A selection of over 100 sizes of connectors
Ensures the right part for every application

EASY TO INSTALL



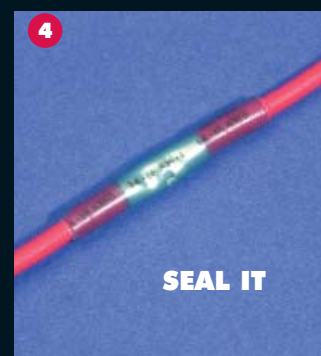
**STRIP
WIRES
& INSERT**



CRIMP IT



HEAT IT



SEAL IT



Ask us for a complete list of applicable part numbers.

PART #	GAUGE	COLOR	DESCRIPTION	TYPE	SEAM
RING TERMINALS					
KS120-04	22-24 AWG	Clear	#4 stud	Standard	Butted
KS120-06	22-24 AWG	Clear	#6 stud	Standard	Butted
KS116-06	18-20 AWG	Red	#6 stud	Standard	Brazed
KS116-08	18-20 AWG	Red	#8 stud	Standard	Brazed
KS116-10	18-20 AWG	Red	#10 stud	Standard	Brazed
KS116-14	18-20 AWG	Red	1/4" stud	Standard	Brazed
KS116-516	18-20 AWG	Red	5/16" stud	Standard	Brazed
KS116-38	18-20 AWG	Red	3/8" stud	Standard	Brazed
KS114-06	14-16 AWG	Blue	#6 stud	Standard	Brazed
KS114-08	14-16 AWG	Blue	#8 stud	Standard	Brazed
KS114-10	14-16 AWG	Blue	#10 stud	Standard	Brazed
KS114-14	14-16 AWG	Blue	1/4" stud	Standard	Brazed
KS114-516	14-16 AWG	Blue	5/16" stud	Standard	Brazed
KS114-38	14-16 AWG	Blue	3/8" stud	Standard	Brazed
KS110-06	10-12 AWG	Yellow	#6 stud	Standard	Brazed
KS110-08	10-12 AWG	Yellow	#8 stud	Standard	Brazed
KS110-10	10-12 AWG	Yellow	#10 stud	Standard	Brazed
KS110-14	10-12 AWG	Yellow	1/4" stud	Standard	Brazed
KS110-516	10-12 AWG	Yellow	5/16" stud	Standard	Brazed
KS110-38	10-12 AWG	Yellow	3/8" stud	Standard	Brazed
KS110-12	10-12 AWG	Yellow	1/2" stud	Standard	Brazed
KS108-10	8 AWG	Pink	#10 stud	Standard	Butted
KS108-14	8 AWG	Pink	1/4" stud	Standard	Butted
KS108-516	8 AWG	Pink	5/16" stud	Standard	Butted
KS108-38	8 AWG	Pink	3/8" stud	Standard	Butted
KS108-12	8 AWG	Pink	1/2" stud	Standard	Butted
KS108L-10	8 AWG	Pink	#10 stud	Lug Style	Seamless
KS108L-14	8 AWG	Pink	1/4" stud	Lug Style	Seamless
KS108L-516	8 AWG	Pink	5/16" stud	Lug Style	Seamless
KS108L-38	8 AWG	Pink	3/8" stud	Lug Style	Seamless
KS108L-12	8 AWG	Pink	1/2" stud	Lug Style	Seamless
MULTI-STUD TERMINALS					
KS116-MS	18-20 AWG	Red	#6, 8, & 10 stud	Standard	Brazed
KS114-MS	14-16 AWG	Blue	#6, 8, & 10 stud	Standard	Brazed
SPADE TERMINALS					
KS220-04	22-24 AWG	Clear	#4 stud	Standard	Butted
KS220-06	22-24 AWG	Clear	#6 stud	Standard	Butted
KS216-06	18-20 AWG	Red	#6 stud	Standard	Brazed
KS216-08	18-20 AWG	Red	#8 stud	Standard	Brazed
KS216-10	18-20 AWG	Red	#10 stud	Standard	Brazed
KS214-06	14-16 AWG	Blue	#6 stud	Standard	Brazed
KS214-08	14-16 AWG	Blue	#8 stud	Standard	Brazed
KS214-10	14-16 AWG	Blue	#10 stud	Standard	Brazed
KS210-06	10-12 AWG	Yellow	#6 stud	Standard	Brazed
KS210-08	10-12 AWG	Yellow	#8 stud	Standard	Brazed
KS210-10	10-12 AWG	Yellow	#10 stud	Standard	Brazed
KS210-14	10-12 AWG	Yellow	1/4" stud	Standard	Brazed
KS316-06	18-20 AWG	Red	#6 stud	Flanged Spade	Brazed
KS316-08	18-20 AWG	Red	#8 stud	Flanged Spade	Brazed
KS316-10	18-20 AWG	Red	#10 stud	Flanged Spade	Brazed
KS314-06	14-16 AWG	Blue	#6 stud	Flanged Spade	Brazed
KS314-08	14-16 AWG	Blue	#8 stud	Flanged Spade	Brazed
KS314-10	14-16 AWG	Blue	#10 stud	Flanged Spade	Brazed
KS310-06	10-12 AWG	Yellow	#6 stud	Flanged Spade	Brazed
KS310-08	10-12 AWG	Yellow	#8 stud	Flanged Spade	Brazed
KS310-10	10-12 AWG	Yellow	#10 stud	Flanged Spade	Brazed
KS316S-06	18-20 AWG	Red	#6 stud	Spring Spade	Butted
KS316S-08	18-20 AWG	Red	#8 stud	Spring Spade	Butted
KS316S-10	18-20 AWG	Red	#10 stud	Spring Spade	Butted
KS314S-06	14-16 AWG	Blue	#6 stud	Spring Spade	Butted
KS314S-08	14-16 AWG	Blue	#8 stud	Spring Spade	Butted
KS314S-10	14-16 AWG	Blue	#10 stud	Spring Spade	Butted
KS310S-06	10-12 AWG	Yellow	#6 stud	Spring Spade	Butted
KS310S-08	10-12 AWG	Yellow	#8 stud	Spring Spade	Butted
KS310S-10	10-12 AWG	Yellow	#10 stud	Spring Spade	Butted
HOOK TERMINALS					
KS414-10	14-16 AWG	Blue	#10 stud	Standard	Brazed
STEP-DOWN BUTT CONNECTORS					
KS56-16	18-20 to 14-16 AWG	Blue		Step-down	Seamless
KS56-14	14-16 to 10-12 AWG	Yellow		Step-down	Seamless
KS56-10	10-12 to 8 AWG	Pink		Step-down	Seamless



LUG STYLE

PART #	GAUGE	COLOR	DESCRIPTION	TYPE	SEAM
BUTT CONNECTORS					
KS5-20	22-24 AWG	Clear	Standard	Standard	Butted
KS5-16	18-20 AWG	Red	Standard	Standard	Seamless
KS5-14	14-16 AWG	Blue	Standard	Standard	Seamless
KS5-10	10-12 AWG	Yellow	Standard	Standard	Seamless
KS5-08	8 AWG	Pink	Standard	Standard	Brazed
KS53-16	18-20 AWG	Red	Standard	Three-way	Brazed
KS53-14	14-16 AWG	Blue	Standard	Three-way	Brazed
KS53-10	10-12 AWG	Yellow	Standard	Three-way	Brazed
KS54-16	18-20 AWG	Red	Standard	Four-way	Brazed
KS54-14	14-16 AWG	Blue	Standard	Four-way	Brazed
KS54-10	10-12 AWG	Yellow	Standard	Four-way	Brazed
SLIP-ON CONNECTORS					
KS6-18-110F	18-20 AWG	Red	female .110" tab	Standard	Butted
KS6-18-110M	18-20 AWG	Red	male .110" tab	Standard	Butted
KS6-18-187F	18-20 AWG	Red	female .187" tab	Standard	Butted
KS6-18-187M	18-20 AWG	Red	male .187" tab	Standard	Butted
KS6-18-250F	18-20 AWG	Red	female .250" tab	Standard	Butted
KS6-18-250M	18-20 AWG	Red	male .250" tab	Standard	Butted
KS6-14-110F	14-16 AWG	Blue	female .110" tab	Standard	Butted
KS6-14-110M	14-16 AWG	Blue	male .110" tab	Standard	Butted
KS6-14-187F	14-16 AWG	Blue	female .187" tab	Standard	Butted
KS6-14-187M	14-16 AWG	Blue	male .187" tab	Standard	Butted
KS6-14-250F	14-16 AWG	Blue	female .250" tab	Standard	Butted
KS6-14-250M	14-16 AWG	Blue	male .250" tab	Standard	Butted
KS6-10-250F	10-12 AWG	Yellow	female .250" tab	Standard	Butted
KS6-10-250M	10-12 AWG	Yellow	male .250" tab	Standard	Butted
FULLY-INSULATED SLIP-ON CONNECTORS					
KS66-18-110F	18-20 AWG	Red	female .110" tab	Standard	Butted
KS66-18-187F	18-20 AWG	Red	female .187" tab	Standard	Butted
KS66-18-187M	18-20 AWG	Red	male .187" tab	Standard	Butted
KS66-18-250F	18-20 AWG	Red	female .250" tab	Standard	Butted
KS66-18-250M	18-20 AWG	Red	male .250" tab	Standard	Butted
KS66-14-110F	14-16 AWG	Blue	female .110" tab	Standard	Butted
KS66-14-187F	14-16 AWG	Blue	female .187" tab	Standard	Butted
KS66-14-187M	14-16 AWG	Blue	male .187" tab	Standard	Butted
KS66-14-250F	14-16 AWG	Blue	female .250" tab	Standard	Butted
KS66-14-250M	14-16 AWG	Blue	male .250" tab	Standard	Butted
KS66-10-250F	10-12 AWG	Yellow	female .250" tab	Standard	Butted
KS66-10-250M	10-12 AWG	Yellow	male .250" tab	Standard	Butted
KS67-18-250F	18-20 AWG	Red	female .250" tab	3M Style	Butted
KS67-18-250M	18-20 AWG	Red	male .250" tab	3M Style	Butted
KS67-14-250F	14-16 AWG	Blue	female .250" tab	3M Style	Butted
KS67-14-250M	14-16 AWG	Blue	male .250" tab	3M Style	Butted
KS67-10-250F	10-12 AWG	Yellow	female .250" tab	3M Style	Butted
KS67-10-250M	10-12 AWG	Yellow	male .250" tab	3M Style	Butted
KS60-18-250F	18-20 AWG	Red	female .250" tab	Molex Style	Butted
KS60-18-250M	18-20 AWG	Red	male .250" tab	Molex Style	Butted
KS60-14-250F	14-16 AWG	Blue	female .250" tab	Molex Style	Butted
KS60-14-250M	14-16 AWG	Blue	male .250" tab	Molex Style	Butted
KS60-10-250F	10-12 AWG	Yellow	female .250" tab	Molex Style	Butted
KS60-10-250M	10-12 AWG	Yellow	male .250" tab	Molex Style	Butted
KS61-18-250F	18-20 AWG	Red	female .250" tab	Sure Crimp Style	Butted
KS61-18-250M	18-20 AWG	Red	male .250" tab	Sure Crimp Style	Butted
KS61-14-250F	14-16 AWG	Blue	female .250" tab	Sure Crimp Style	Butted
KS61-14-250M	14-16 AWG	Blue	male .250" tab	Sure Crimp Style	Butted
KS61-10-250F	10-12 AWG	Yellow	female .250" tab	Sure Crimp Style	Butted
KS61-10-250M	10-12 AWG	Yellow	male .250" tab	Sure Crimp Style	Butted
BULLET PLUGS					
KS7-18-15M	18-20 AWG	Red	.157" plug	Standard	Butted
KS7-18-17M	18-20 AWG	Red	.176" plug	Standard	Butted
KS7-18-18M	18-20 AWG	Red	.180" plug	Standard	Butted
KS7-14-15M	14-16 AWG	Blue	.157" plug	Standard	Butted
KS7-14-17M	14-16 AWG	Blue	.176" plug	Standard	Butted
KS7-14-18M	14-16 AWG	Blue	.180" plug	Standard	Butted
BULLET RECEPTACLES					
KS7-18-15F	18-20 AWG	Red	.157" receptacle	Standard	Butted
KS7-18-17F	18-20 AWG	Red	.176" receptacle	Standard	Butted
KS7-18-18F	18-20 AWG	Red	.180" receptacle	Standard	Butted
KS7-14-15F	14-16 AWG	Blue	.157" receptacle	Standard	Butted
KS7-14-17F	14-16 AWG	Blue	.176" receptacle	Standard	Butted
KS7-14-18F	14-16 AWG	Blue	.180" receptacle	Standard	Butted



3M STYLE

MOLEX STYLE

SURE CRIMP STYLE

HEAT SHRINK TUBING, TOOLS & ASSORTMENTS

PART #	DESCRIPTION				
MULTIPLE WALL, ADHESIVE-LINED HEAT SHRINK TUBING					
HST303C-6	22-24 AWG	Clear	6" Length	1/8" ID	
HST304R-6	18-20 AWG	Red	6" Length	3/16" ID	
HST305BL-6	14-16 AWG	Blue	6" Length	1/4" ID	
HST306Y-6	10-12 AWG	Yellow	6" Length	5/16" ID	
ASSORTMENTS & KITS					
NSPA-9002	3 Items	60 Pieces	Mini Kit	Butt Connectors	
NSPA-5002	20 Items	115 Pieces	Starter Assortment	Butt Connectors & Terminals	
NSPA-5003	13 Items	121 Pieces	Starter Assortment	Butt Connectors, Terminals & Torch	
NSPA-5003-T	14 Items	122 Pieces	Starter Assortment	Butt Connectors, Terminals, Torch & Standard Crimp Tool	
NSPA-5003-UL	14 Items	122 Pieces	Starter Assortment	Butt Connectors, Terminals, Torch & Ratcheting Crimp Tool	
NSPA-1002	31 Items	320 Pieces	Maintenance Assortment	Butt Connectors & Terminals	
NSPA-1003	29 Items	286 Pieces	Maintenance Assortment	Butt Connectors, Terminals & Torch	
NSPA-1003-T	30 Items	287 Pieces	Maintenance Assortment	Butt Connectors, Terminals, Torch & Standard Crimp Tool	
NSPA-1003-UL	30 Items	287 Pieces	Maintenance Assortment	Butt Connectors, Terminals, Torch & Ratcheting Crimp Tool	
NSPA-1130	17 Items	306 Pieces	Wire Harness Repair Kit	Connectors, Heat Shrink, Cable Ties & Tool	
NSPA-1184	37 Items	418 Pieces	Golf Cart Repair Kit	Krimpa-Seal, CableLink, Heat Shrink, Cable Ties & Tools	
NSPA-1185	70 Items	656 Pieces	Fork Lift Repair Kit	Krimpa-Seal, CableLink, Cable Ties & Tools - Two Metal Trays	
NSPA-1208	25 Items	113 Pieces	Wire Rack Display	Connectors, Kits & Tools	
NSPA-1202	58 Items	852 Pieces	Truck Fleet Repair Kit	Lighting & Wiring Supplies	
TOOLS					
<p>T-R-15 Multi Purpose Crimp Tool</p> 		<p>T-R-45 Ratcheting Crimp Tool ** Recommended for Krimpa-Seal **</p> 		<p>T-MT-10 Self Igniting Butane Refillable Micro Torch</p> 	
				<p>T-MT-51 Self-Igniting Butane Refillable Canister Torch</p> 	

PRODUCT CHARACTERISTICS

HEAT SHRINK TUBING

Material: Multiple wall polyolefin tubing with meltable, integral inner wall
 Applicable Specifications: MIL-I-23053/4, Class 1; AMS 3634; UL File E-157227
 Typical Properties:

Physical:	Temperature Rating:	-55° to 110°F
	Tensile Strength:	2200 PSI
	Longitudinal Change:	1% - 10%
Electrical:	Dielectric Strength:	900 Volts/Mil
	UL Voltage Rating:	600 Volts
Chemical:	Corrosion Resistance:	Non-Corrosive
	Fungus Resistance:	Non-Nutrient
	Water Absorption:	<0.1%

KRIMPA-SEAL™ INSTALLATION INSTRUCTIONS

BUTT CONNECTORS

- Strip the wire 5/16".
- Select a connector that matches the wire gauge and insert the wire into the connector barrel.
- Make sure the wire is properly seated and crimp the connector using an insulated connector crimping tool nest that matches the color or gauge of the connector.
- Repeat steps 1 thru 3 for the other side.
- Apply heat evenly around the length of the tubing (including the crimp area) from the center out to the ends until the tubing fully recovers and the adhesive flows. Remove from the heat and let cool for a SEALED connection.

RINGS, SPADES & SLIP-ONS

- Strip the wire 5/16".
- Select a connector that matches the wire gauge and insert the wire into the terminal barrel.
- Make sure the wire is properly seated and crimp the terminal barrel using an insulated connector crimping tool nest that matches the color or gauge of the terminal.
- Apply heat evenly around the length of the tubing (including the crimp area) until the tubing fully recovers and the adhesive flows. Remove from the heat and let cool for a SEALED connection.

For best results: Use a heat device of at least 400°F • When using an open flame, do not isolate flame on one area of the tubing. Distribute the heat evenly. Overheating the connector may cause damage to the tubing.

Rating: 105° C • 600V maximum building wire • 1000V maximum in signs and fixtures
 To Be Sold Only With Installation Instructions • Not for Multiple Wire Connections



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