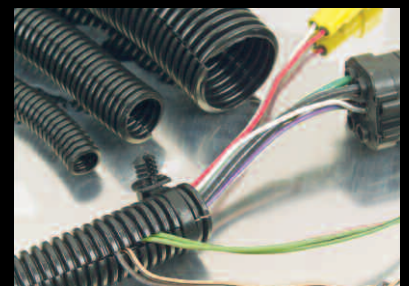


**RED  
STALLION™**

# WIRING ACCESSORIES



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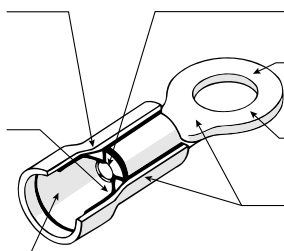
## Pre-insulated Funnel Entry Vinyl Terminal

Multiple "V" grooves inside barrel provide firm grip on wire strands and current flow when crimped.

Vinyl insulation provides good dielectric strength.

Insulation has locating ridge for positioning crimping tool and supporting wire insulation.

Funnel design guides wire into crimping position without wire strand hangup.



Electro tin plating stops corrosion, pitting and oxidation.

Terminal area constructed of annealed, electrolytic (ETP) copper insures maximum electrical conductivity.

Part Number	Description	Qty/Pkg.
<b>Butt Connectors – Uninsulated</b>		
R-URBS	22-18 AWG.	100
R-UBBS	16-14 AWG.	100
R-UYBS	12-10 AWG.	100
<b>Butt Connectors – Vinyl Insulated</b>		
R-RBS	22-18 AWG.	100
R-BBS	16-14 AWG.	100
R-YBS	12-10 AWG.	100
<b>Butt Connectors – Nylon Insulated</b>		
R-NRBS	22-18 AWG.	100
R-NBBS	16-14 AWG.	100
R-NYBS	12-10 AWG.	100
<b>Seamless Butt Connectors - Uninsulated</b>		
R-URBS-S	22-18 AWG.	100
R-UBBS-S	16-14 AWG.	100
R-UYBS-S	12-10 AWG.	100
<b>Parallel Connectors – Vinyl Insulated</b>		
R-RPS	22-18 AWG.	100
R-BPS	16-14 AWG.	100
R-YPS	12-10 AWG.	100
<b>Parallel Connectors – Nylon Insulated</b>		
R-NRPS	22-18 AWG.	100
R-NBPS	16-14 AWG.	100
R-NYPS	12-10 AWG.	100





Part Number	Description	Qty/Pkg.
<b>Ring Terminals – Uninsulated</b>		
R-URR6	22-18 Ring #6	100
R-URR8	22-18 Ring #8	100
R-URR10	22-18 Ring #10	100
R-URR1/4	22-18 Ring 1/4"	100
R-URR5/16	22-18 Ring 5/16"	100
R-URR3/8	22-18 Ring 3/8"	100
R-UBR6	16-14 Ring #6	100
R-UBR8	16-14 Ring #8	100
R-UBR10	16-14 Ring #10	100
R-UBR1/4	16-14 Ring 1/4"	100
R-UBR5/16	16-14 Ring 5/16"	100
R-UBR3/8	16-14 Ring 3/8"	100
R-UYR6	12-10 Ring #6	100
R-UYR8	12-10 Ring #8	100
R-UYR10	12-10 Ring #10	100
R-UYR1/4	12-10 Ring 1/4"	100
R-UYR5/16	12-10 Ring 5/16"	100
R-UYR3/8	12-10 Ring 3/8"	100
R-UYR1/2	12-10 Ring 1/2"	100
<b>Ring Terminals – Vinyl Insulated</b>		
R-RR6	22-18 Ring #6	100
R-RR8	22-18 Ring #8	100
R-RR10	22-18 Ring #10	100
R-RR1/4	22-18 Ring 1/4"	100
R-RR5/16	22-18 Ring 5/16"	100
R-RR3/8	22-18 Ring 3/8"	100
R-BR6	16-14 Ring #6	100
R-BR8	16-14 Ring #8	100
R-BR10	16-14 Ring #10	100
R-BR1/4	16-14 Ring 1/4"	100
R-BR5/16	16-14 Ring 5/16"	100
R-BR3/8	16-14 Ring 3/8"	100
R-YR6	12-10 Ring #6	100
R-YR8	12-10 Ring #8	100
R-YR10	12-10 Ring #10	100
R-YR1/4	12-10 Ring 1/4"	100
R-YR5/16	12-10 Ring 5/16"	100
R-YR3/8	12-10 Ring 3/8"	100
R-YR1/2	12-10 Ring 1/2"	100
<b>Block Spade Tongue Terminals – Vinyl Insulated</b>		
R-RS6	22-18 Spade #6	100
R-RS10	22-18 Spade #10	100
R-BS6	16-14 Spade #6	100
R-BS10	16-14 Spade #10	100
R-YS6	12-10 Spade #6	100
R-YS10	12-10 Spade #10	100
<b>Flanged Block Spades – Vinyl Insulated</b>		
R-RSF6	22-18 Flanged Spade #6	100
R-RSF10	22-18 Flanged Spade #10	100
R-BSF6	16-14 Flanged Spade #6	100
R-BSF10	16-14 Flanged Spade #10	100
R-YSF6	12-10 Flanged Spade #6	100
R-YSF10	12-10 Flanged Spade #10	100

Part Number	Description	Qty/Pkg.
<b>Male Quick Disconnects – Vinyl Insulated</b>		
R-RQDM-250	22-18 Male Disc. .250"	100
R-RQDM-187	22-18 Male Disc. .187"	100
R-BQDM-250	16-14 Male Disc. .250"	100
R-BQDM-187	16-14 Male Disc. .187"	100
R-BQDM-110	16-14 Male Disc. .110"	100
R-YQDM-250	12-10 Male Disc. .250"	100



<b>Female Quick Disconnects – Vinyl Insulated</b>		
R-RQDF-250	22-18 Female Disc. .250"	100
R-RQDF-187	22-18 Female Disc. .187"	100
R-RQDF-110	22-18 Female Disc. .110"	100
R-BQDF-250	16-14 Female Disc. .250"	100
R-BQDF-187	16-14 Female Disc. .187"	100
R-BQDF-110	16-14 Female Disc. .110"	100
R-YQDF-250	12-10 Female Disc. .250"	100
R-YQDF-375	12-10 Female Disc. .375"	50



<b>Male Nylon Couplers – Fully Insulated</b>		
R-RQDM-FI-250	22-18 AWG. Male .250"	100
R-RQDM-FI-187	22-18 AWG. Male .187"	100
R-BQDM-FI-250	16-14 AWG. Male .250"	100
R-BQDM-FI-187	16-14 AWG. Male .187"	100
R-YQDM-FI-250	12-10 AWG. Male .250"	75



<b>Female Nylon Couplers – Fully Insulated</b>		
R-RQDF-FI-250	22-18 AWG. Female .250"	100
R-RQDF-FI-187	22-18 AWG. Female .187"	100
R-BQDF-FI-250	16-14 AWG. Female .250"	100
R-BQDF-FI-187	16-14 AWG. Female .187"	100
R-YQDF-FI-250	12-10 AWG. Female .250"	75

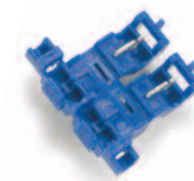


<b>3-Way Connectors – Vinyl Insulated</b>		
R-R3WC	22-18 AWG.	25
R-B3WC	16-14 AWG.	25
R-Y3WC	12-10 AWG.	25



<b>4-Way Connectors – Vinyl Insulated</b>		
R-R4WC	22-18 AWG.	25
R-B4WC	16-14 AWG.	25
R-Y4WC	12-10 AWG.	25





Part Number	Description	Qty/Pkg.
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## Snap Plugs Terminals – Vinyl Insulated

R-RBM-157	22-18 AWG. Snap Plug .157"	100
R-RBM-176	22-18 AWG. Snap Plug .176"	100
R-BBM-157	16-14 AWG. Snap Plug .157"	100
R-BBM-176	16-14 AWG. Snap Plug .176"	100

## Snap Plug Receptacles - Nylon

R-RBF-FI-157	22-18 AWG. Snap Plug .157"	100
R-RBF-FI-176	22-18 AWG. Snap Plug .176"	100
R-BBF-FI-157	16-14 AWG. Snap Plug .157"	100
R-BBF-FI-176	16-14 AWG. Snap Plug .176"	100

## Snap Plug Receptacles – Double Female

R-DBR-157	.157" x 2	100
R-DBR-176	.176" x 2	100

## Closed End Connectors – Double Female

R-CES22/14	22-14 AWG.	100
R-CES22/12	22-12 AWG.	100
R-CES16/10	16-10 AWG.	100
R-CES8	8 AWG.	25

## Self-Stripping Connectors

R-SSTC-R	22-18 AWG.	100
R-SSTC-B	18-14 AWG.	100
R-SSTC-Y	12-10 AWG.	100

## Moisture Resistant Self Stripping Connector

R-804	18-16 AWG.	25
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## Self Stripping Female T-Tap Connector

R-T-TAP-R	22-18 AWG.	25
R-T-TAP-B	18-14 AWG.	25
R-T-TAP-Y	12-10 AWG.	25

## Self Stripping Fuse Holder

R-SSF	18-14 AWG.	25
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Part Number	Description	Qty/Pkg.
<b>Special Adapters</b>		
R-DMD-250	Double Male Quick Disconnect .250" x 2	100
R-MFA-250	Male Fuse Clip Adapter .250"	100
R-BFA-250	Blade Type Fuse Adapter .250"	100
R-BFA-187	Blade Type Fuse Adapter .187"	100

### Multi-Stack Disconnect Terminals - Vinyl Insulated

R-RQDF/M	22-18 Multi Stack Disconnect	100
R-BQDF/M	16-14 Multi Stack Disconnect	100
R-YQDF/M	12-10 Multi Stack Disconnect	50

### Heavy Duty Copper Lugs

R-8141	8 AWG. 1/4"	10
R-8382	8 AWG. 3/8"	10
R-6141	6 AWG. 1/4"	10
R-6382	6 AWG. 3/8"	10
R-4141	4 AWG. 1/4"	10
R-4561	4 AWG. 5/16"	10
R-4382	4 AWG. 3/8"	10
R-2561	2 AWG. 5/16"	10
R-2381	2 AWG. 3/8"	10
R-1381	1 AWG. 3/8"	10
R-10381	1/0 AWG. 3/8"	10
R-10501	1/0 AWG. 1/2"	10
R-20381	2/0 AWG. 3/8"	10
R-20561	2/0 AWG. 5/16"	10
R-20501	2/0 AWG. 1/2"	10
R-30381	3/0 AWG. 3/8"	10
R-30501	3/0 AWG. 1/2"	10
R-40381	4/0 AWG. 3/8"	10
R-40501	4/0 AWG. 1/2"	10
R-250501	250 MCM 1/2"	10

### Heavy Duty Seamless Splice - Tin Plated

R-8001	8 AWG.	10
R-6001	6 AWG.	10
R-4001	4 AWG.	10
R-2001	2 AWG.	10
R-1001	1 AWG.	10
R-10001	1/0 AWG.	10
R-20001	2/0 AWG.	10
R-30001	3/0 AWG.	10
R-40001	4/0 AWG.	10

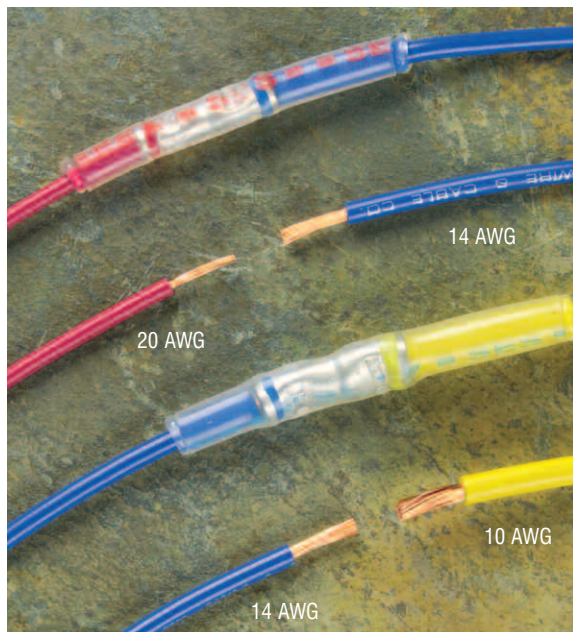
### Solder Cable Termination Kit (see page 30 for full description)

29-100	12 compartment, plastic box
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Kit contains 10 each of Solder Pellet for 6, 4, 2 and 1 AWG and 15 - 1/2" & 3/4" Dual Wall Shrink Tubing, Red & Black 80 6-1 AWG Copper Lugs and 1 Bottle of ELA-Flux (2 Oz.)



## Step Down Butt Connectors



Part No.	Wire Range	Colour Stripe Side 1	Colour Stripe Side 2	Qty/ Pkg.
<b>Uninsulated</b>				
R-USDB24-18	24-22 to 20-18	White	Red	25
R-USDB20-14	20-18 to 16-14	Red	Blue	25
R-USDB16-10	16-14 to 12-10	Blue	Yellow	25
R-USDB12-8	12-10 to 8	Yellow	Pink	25
<b>Vinyl Insulated</b>				
R-SDB26-18	26-24 to 22-18	White	Red	25
R-SDB22-14	22-18 to 16-14	Red	Blue	25
R-SDB16-10	16-14 to 12-10	Blue	Yellow	25
R-SDB12-8	12-10 to 8	Yellow	Pink	25
<b>Heat Shrinkable</b>				
R-HS-SDB24-18	24-22 to 20-18	White	Red	25
R-HS-SDB20-14	20-18 to 16-14	Red	Blue	25
R-HS-SDB16-10	16-14 to 12-10	Blue	Yellow	25
R-HS-SDB12-8	12-10 to 8	Yellow	Pink	25
<b>Crimp, Solder &amp; Seal</b>				
R-CSS-SDB24-18	24-22 to 20-18	White	Red	25
R-CSS-SDB20-14	20-18 to 16-14	Red	Blue	25
R-CSS-SDB16-10	16-14 to 12-10	Blue	Yellow	25
R-CSS-SDB12-8	12-10 to 8	Yellow	Pink	25

## Step Down Butt Connectors

- Used for connecting a larger wire to a smaller wire
- Has two stripes – one on each end – to indicate which wire size to insert, and which crimp die to use



**THEIRS**  
outside diameter is the same



Potential for wire pull-out



The thicker wall means that it must be crimped on the larger crimp die  
*Confusing!*

**OURS**  
outside diameter is varied



Strong mechanical termination



With two stripes, the stripe matches the crimp die that needs to be used  
*Makes Sense!*



Remove "R-" from Part No. to order bulk quantities.



## Heat Shrinkable Connectors

Heat shrinkable terminals and connectors protect from water, condensation, salt, and corrosion. They provide strain relief and insulate and protect electrical connections.

### Product Characteristics:

Operating Temp.:	-55°C to 125°C
Shrink Ratio:	Approx. 2:1.
Applications:	Automotive/truck wiring repair and maintenance Automotive accessories installations OEM automotive/truck/RV wire harness fabrication

Part Number	Description	Qty/Pkg.
<b>Heat Shrinkable Butt Connectors</b>		
R-HS-RBS	22-18 AWG.	25
R-HS-BBS	16-14 AWG.	25
R-HS-YBS	12-10 AWG.	25
<b>Heat Shrinkable Ring Terminals</b>		
R-HS-RR8	22-18 Ring #8 Stud	25
R-HS-RR10	22-18 Ring #10 Stud	25
R-HS-RR1/4	22-18 Ring 1/4" Stud	25
R-HS-RR5/16	22-18 Ring 5/16" Stud	25
R-HS-RR3/8	22-18 Ring 3/8" Stud	25
R-HS-BR8	16-14 Ring #8 Stud	25
R-HS-BR10	16-14 Ring #10 Stud	25
R-HS-BR1/4	16-14 Ring 1/4" Stud	25
R-HS-BR5/16	16-14 Ring 5/16" Stud	25
R-HS-BR3/8	16-14 Ring 3/8" Stud	25
R-HS-YR8	12-10 Ring #8 Stud	25
R-HS-YR10	12-10 Ring #10 Stud	25
R-HS-YR1/4	12-10 Ring 1/4" Stud	25
R-HS-YR5/16	12-10 Ring 5/16" Stud	25
R-HS-YR3/8	12-10 Ring 3/8" Stud	25
R-HS-YR1/2	12-10 Ring 1/2" Stud	25
<b>Heat Shrinkable Spade Terminals</b>		
R-HS-RS8	22-18 Spade #8	25
R-HS-RS10	16-14 Spade #10	25
R-HS-BS8	16-14 Spade #8	25
R-HS-BS10	16-14 Spade #10	25
R-HS-YS8	12-10 Spade #8	25
R-HS-YS10	12-10 Spade #10	25
<b>Heat Shrinkable Male Quick Disconnect Terminals</b>		
R-HS-RQDM-250	22-18 Male Disconnect .250"	25
R-HS-BQDM-250	16-14 Male Disconnect .250"	25
R-HS-YQDM-250	12-10 Male Disconnect .250"	25
<b>Heat Shrinkable Female Quick Disconnect Terminals</b>		
R-HS-RQDF-110	22-18 Female Disconnect .110"	25
R-HS-RQDF-250	22-18 Female Disconnect .250"	25
R-HS-BQDF-250	16-14 Female Disconnect .250"	25
R-HS-YQDF-250	12-10 Female Disconnect .250"	25





Part Number	Description	Qty/Pkg.
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## Heat Shrinkable Snap Plug Connectors

R-HS-RBM-157	22-18 Snap Plug .157"	25
R-HS-BBM-197	16-14 Snap Plug .197"	25
R-HS-BBM-157	16-14 Snap Plug .157"	25

## Heat Shrinkable Snap Plug Receptacles

R-HS-RBF-FI-157	22-18 Receptacle .157"	25
R-HS-BBF-FI-197	16-14 Receptacle .197"	25
R-HS-BBF-FI-157	16-14 Receptacle .157"	25

## Heat Shrinkable Pin Terminals

R-HS-PIN-075	22-18 Pin .075"	25
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## Heat Shrinkable Solder & Seal Terminals (SS Series)

### Environmentally Sealed Solder Connectors

Our SS Series of connectors consist of a precisely engineered, fluxed solder ring within a heat-shrinkable jacket which, when heated, provides a completely soldered, strain relieved, encapsulated connection. Our SS Series wire and cable connectors have a one piece design which simplifies installation, and transparent insulation sleeves, which makes inspection easy.

#### Features & Benefits

- Translucent, adhesive-lined polyolefin tubing allows visual inspection
- Prevents wire corrosion and provides a waterproof seal
- Easy installation with pre-measured solder
- Soldered electrical connection provides superior current flow and tensile strength
- Colour-coded tubing with wire gauge imprint provides easy identification



#### Product Characteristics:

##### HEAT SHRINK TUBING

Temperature Rating -55°C to 110°C (-67°F to 230°F)  
Tensile Strength 2200 PSI

##### SOLDER

Applicable Specifications: J-STD-006  
Melting point for the solder: 146°C ( 295°F )

### Solder & Seal Butt Connectors

Part No.	Wire Range	Insulation Colour	Qty/ Pkg.
R-SS-CBS	26-22	Clear	25
R-SS-RBS	22-18	Red	25
R-SS-BBS	16-14	Blue	25
R-SS-YBS	12-10	Yellow	25



### Solder & Seal Spade Terminals

Part No.	Wire Range	Stud Size	Insulation Colour	Qty/ Pkg.
R-SS-CS2	24-22	#2	Clear	25
R-SS-CS4	24-22	#4	Clear	25
R-SS-CS6	24-22	#6	Clear	25
R-SS-RS10	20-18	#10	Red	25
R-SS-BS10	16-14	#10	Blue	25
R-SS-YS10	12-10	#10	Yellow	25



### Solder & Seal Ring Terminals

Part No.	Wire Range	Stud Size	Insulation Colour	Qty/ Pkg.
R-SS-CR2	24-22	#2	Clear	25
R-SS-CR4		#4	Clear	25
R-SS-CR6		#6	Clear	25
R-SS-RR6	20-18	#6	Red	25
R-SS-RR8		#8	Red	25
R-SS-RR10		#10	Red	25
R-SS-RR1/4		1/4"	Red	25
R-SS-RR5/16		5/16"	Red	25
R-SS-RR3/8		3/8"	Red	25
R-SS-BR6	16-14	#6	Blue	25
R-SS-BR8		#8	Blue	25
R-SS-BR10		#10	Blue	25
R-SS-BR1/4		1/4"	Blue	25
R-SS-BR5/16		5/16"	Blue	25
R-SS-BR3/8		3/8"	Blue	25
R-SS-YR10	12-10	#10	Yellow	25
R-SS-YR1/4		1/4"	Yellow	25
R-SS-YR5/16		5/16"	Yellow	25



Remove "R-" from Part No. to order bulk quantities.

## Solder & Seal Male & Female Quick Disconnects

Part No.	Wire Range	Tab Size	Insulation Colour	Qty/Pkg.
R-SS-RQDM-250	20-18	.250" Male	Red	25
R-SS-RQDF-250		.250" Female	Red	25
R-SS-BQDM-250	16-14	.250" Male	Blue	25
R-SS-BQDF-250		.250" Female	Blue	25
R-SS-YQDM-250	12-10	.250" Male	Yellow	25
R-SS-YQDF-250		.250" Female	Yellow	25



## Solder & Seal Fully Insulated Quick Disconnects

Part No.	Wire Range	Tab Size	Insulation Colour	Qty/Pkg.
R-SS-RQDF-FI-250	20-18	.250" F.I. Female	Red	25
R-SS-BQDF-FI-250	16-14	.250" F.I. Female	Blue	25
R-SS-YQDF-FI-250	12-10	.250" F.I. Female	Yellow	25



## Heat Shrinkable Solder & Seal Terminals reduce recurring electrical problems:

Corrosion on wire causes voltage drop



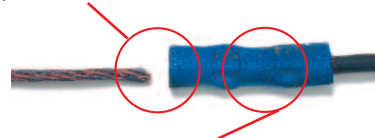
### Solutions:

Adhesive-lined tubing prevents corrosion on the wire



Translucent tubing allows visual inspection of installation

Wire pulled loose due to strain or vibration



Cannot see whether terminal is properly installed



Adhesive-lined heat shrink tubing and solder combine to increase tensile strength

### EASY TO INSTALL:



1. Strip & intermingle wires



2. Slide over



3. Heat it



4. Solder & Seal it



## Heat Shrinkable Crimp, Solder & Seal Terminals (CSS Series)

The integrity of sealed electrical harnesses is often breached when service repairs are completed using inferior, unsealed electrical connectors.

The CSS Series of connectors offers the ultimate solution in a one piece crimp, soldered and sealed termination when servicing /repairing sealed electrical harnesses. The CSS series of connectors provides for uncompromised integrity and durability in every aftermarket splice or termination.

### Features & Benefits

- Crimped for maximum reliability; soldered for strength
- Environmentally sealed with an adhesive-lined heat shrinkable jacket
- Translucent heat shrink tubing jacket allows for visual inspection
- Colour-coded connectors with wire gauge imprint for easy identification
- Meets or exceeds the most stringent OEM standards



### Product Characteristics:

#### HEAT SHRINK TUBING

Temperature Rating -55°C to 110°C (-67°F to 230°F)  
Tensile Strength 2200 PSI

#### SOLDER

Applicable Specifications: J-STD-006  
Melting point for the solder 146°C ( 295°F )

### Crimp, Solder & Seal Butt Connectors

Part No.	Wire Range	Insulation Colour	Qty/ Pkg.
R-CSS-CBS	24-22	Clear	25
R-CSS-RBS	20-18	Red	25
R-CSS-BBS	16-14	Blue	25
R-CSS-YBS	12-10	Yellow	25



### Crimp, Solder & Seal Step Down Butt Connectors

Part No.	Wire Range	Insulation Colour	Qty/ Pkg.
R-CSS-SDB24-18	24-22 to 20-18	Red	25
R-CSS-SDB20-14	20-18 to 16-14	Blue	25
R-CSS-SDB16-10	16-14 to 12-10	Yellow	25
R-CSS-SDB12-8	12-10 to 8	Pink	25



### Crimp, Solder & Seal Ring Terminals

Part No.	Wire Range	Stud	Insulation Colour	Qty/ Pkg.
R-CSS-RR6	20-18	# 6	Red	25
R-CSS-RR8		# 8	Red	25
R-CSS-RR10		# 10	Red	25
R-CSS-RR1/4		1/4"	Red	25
R-CSS-RR5/16		5/16"	Red	25
R-CSS-RR3/8		3/8"	Red	25
R-CSS-BR6	16-14	# 6	Blue	25
R-CSS-BR8		# 8	Blue	25
R-CSS-BR10		# 10	Blue	25
R-CSS-BR1/4		1/4"	Blue	25
R-CSS-BR5/16		5/16"	Blue	25
R-CSS-BR3/8		3/8"	Blue	25
R-CSS-YR6	12-10	# 6	Yellow	25
R-CSS-YR8		# 8	Yellow	25
R-CSS-YR10		# 10	Yellow	25
R-CSS-YR1/4		1/4"	Yellow	25
R-CSS-YR5/16		5/16"	Yellow	25
R-CSS-YR3/8		3/8"	Yellow	25
R-CSS-YR1/2		1/2"	Yellow	25



Remove "R-" from Part No. to order bulk quantities.



## Crimp, Solder & Seal Spade Terminals



Part No.	Wire Range	Stud Size	Insulation Colour	Qty/ Pkg.
R-CSS-RS6	20-18	# 6	Red	25
R-CSS-RS8		# 8	Red	25
R-CSS-RS10		# 10	Red	25
R-CSS-BS6	16-14	# 6	Blue	25
R-CSS-BS8		# 8	Blue	25
R-CSS-BS10		# 10	Blue	25
R-CSS-YS6	12-10	# 6	Yellow	25
R-CSS-YS8		# 8	Yellow	25
R-CSS-YS10		# 10	Yellow	25
Spring Spade				
R-CSS-RSS6	20-18	# 6	Red	25
R-CSS-RSS8		# 8	Red	25
R-CSS-RSS10		# 10	Red	25
R-CSS-BSS6	16-14	# 6	Blue	25
R-CSS-BSS8		# 8	Blue	25
R-CSS-BSS10		# 10	Blue	25
R-CSS-YSS6	12-10	# 6	Yellow	25
R-CSS-YSS8		# 8	Yellow	25
R-CSS-YSS10		# 10	Yellow	25

## Crimp, Solder & Seal Quick Disconnect Terminals

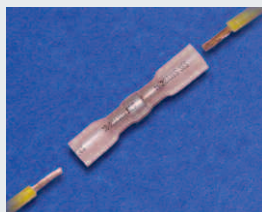


Part No.	Wire Range	Tab Size	Insulation Colour	Qty/Pkg.
R-CSS-RQDM-250	20-18	.250" Male	Red	25
R-CSS-RQDF-250		.250" Female	Red	25
R-CSS-RQDF-FI-250		.250" Fully Insulated Female	Red	25
R-CSS-BQDM-250	16-14	.250" Male	Blue	25
R-CSS-BQDF-250		.250" Female	Blue	25
R-CSS-BQDF-FI-250		.250" Fully Insulated Female	Blue	25
R-CSS-YQDM-250	12-10	.250" Male	Yellow	25
R-CSS-YQDF-250		.250" Female	Yellow	25
R-CSS-YQDF-FI-250		.250" Fully Insulated Female	Yellow	25

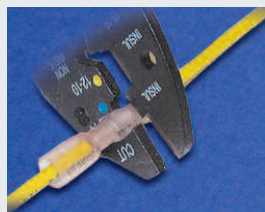
The ultimate solution in a one piece crimp, soldered and sealed termination when servicing/repairing sealed electrical harnesses.



### EASY TO INSTALL:



1. Strip wires & insert



2. Crimp it



3. Heat it



4. Solder & Seal it

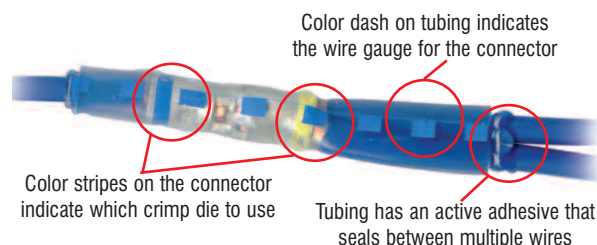
## Sealed Connectors for Multiple Wire Connections (MWC Series)

A new generation of connectors that enables you to seal out moisture in a multiple wire connection. Old style tap connectors provided an unsealed electrical connection. Corrosion within the harness will occur if moisture, usually in the form of water with road salts enters through unprotected splices or connectors. Once inside capillary action and pressure changes propel the fluid through the wiring system deteriorating its integrity.

Our MWC Series of connectors can now provide our customers with an in-line butt connector – joins two wires to one – and our closed end connector – joins two to four wires. Both connectors provide you with a one piece environmentally sealed multiple wire connector.

### Features & Benefits

- Heat shrinkable adhesive-lined jacket
- Active adhesive lining that seals between multiple wires
- Colour coding on connector barrel for easy wire size identification
- Easy to identify which crimp cavity to use on tool, provides for sound mechanical crimp
- Translucent, adhesive-lined heat shrink tubing allows for visual inspection during installation
- Wire stop in butt connector prevents over-insertion of wire strands



## MWC In-line Butt Connectors

- Color dash on tubing indicates the wire gauge for the connector
- Replaces temporary, unsealed quick-taps
- Color stripes on the connector indicate which crimp die to use
- Tubing has an active adhesive that seals between multiple wires

Part No.	Wire Size	Markings	Colour for Wire Size Identification	Wire AWG	Crimp Tool Die	Qty/Pkg.
R-MWC24-22	24-22	White Dashes	Side1: White Side2: Red	One 24-22 Two 24-22	White Red	25
R-MWC20-18	20-18	Red Dashes	Side1: Red Side2: Blue	One 20-18 Two 20-18	Red Blue	25
R-MWC16-14	16-14	Blue Dashes	Side1: Blue Side2: Yellow	One 16-14 Two 16-14	Blue Yellow	25
R-MWC12-10	12-10	Yellow Dashes	Side1: Yellow Side2: Red	One 12-10 Two 12-10 (8 AWG)	Yellow Red	25



MWC24-22



MWC20-18



MWC16-14



MWC12-10



## STANDARD TIES . . . versatile, multiple purpose

Part No.	Approx. Length	Approx. Width	Minimum Tensile Unlocking Strength	Maximum Bundle Diameter	Qty/Pkg.
<b>Weatherproof Black</b>					
R-TF3X	4.1" (10.47 cm)	.095" (.23 cm)	18 lbs. (8.2 kg)	7/8" (2.22 cm)	100
R-TF4X	5.8" (13.7 cm)	.140" (.35 cm)	40 lbs. (18.1 kg)	1-7/16" (3.65 cm)	100
R-TF5X	7.5" (19.1 cm)	.180" (.45 cm)	50 lbs. (22.7 kg)	1-7/8" (4.76 cm)	100
R-TF6X	11.2" (28.5 cm)	.180" (.45 cm)	50 lbs. (22.7 kg)	3-1/16" (7.78 cm)	100
R-TF6X-M	11.2" (28.5 cm)	.180" (.45 cm)	50 lbs. (22.7 kg)	3-1/16" (7.78 cm)	1000
R-TF8X	14.5" (36.9 cm)	.180" (.45 cm)	50 lbs. (22.7 kg)	4-1/8" (10.47 cm)	100
R-TF14X	47.8" (175 cm)	.340" (.86 cm)	50 lbs. (22.7 kg)	14.5" (36.8 cm)	25

### Natural

R-TF3	4.1" (10.47 cm)	.095" (.23 cm)	18 lbs. (8.2 kg)	7/8" (2.22 cm)	100
R-TF4	5.8" (13.7 cm)	.140" (.35 cm)	40 lbs. (18.1 kg)	1-7/16" (3.65 cm)	100
R-TF5	7.5" (19.1 cm)	.180" (.45 cm)	50 lbs. (22.7 kg)	1-7/8" (4.76 cm)	100
R-TF6	11.2" (28.5 cm)	.180" (.45 cm)	50 lbs. (22.7 kg)	3-1/16" (7.78 cm)	100
R-TF8	14.5" (36.9 cm)	.180" (.45 cm)	50 lbs. (22.7 kg)	4-1/8" (10.47 cm)	100
R-TF14	47.8" (175 cm)	.340" (.86 cm)	50 lbs. (22.7 kg)	14.5" (36.8 cm)	25



## HEAVY DUTY TIES . . . extra strong for more demanding applications

Part No.	Approx. Length	Approx. Width	Minimum Tensile Unlocking Strength	Maximum Bundle Diameter	Qty/Pkg.
<b>Weatherproof Black</b>					
R-TF7X	15.1" (38.3 cm)	.300" (.76 cm)	120 lbs. (54.4 kg)	4-1/16" (10.32 cm)	50
R-TF7X-D	15.1" (38.3 cm)	.300" (.76 cm)	120 lbs. (54.4 kg)	4-1/16" (10.32 cm)	500
R-TF12X	37.2" (94.6 cm)	.340" (.86 cm)	175 lbs. (79.4 kg)	11" (27.9 cm)	25
<b>Natural</b>					
R-TF7	15.1" (38.3 cm)	.300" (.76 cm)	120 lbs. (54.4 kg)	4-1/16" (10.32 cm)	50
R-TF12	37.2" (94.6 cm)	.340" (.86 cm)	175 lbs. (79.4 kg)	11" (27.9 cm)	25



## MOUNTING TIES . . . one piece for quick, simple bundling and mounting

Part No.	Approx. Length	Approx. Width	Mounting Hole Size	Minimum Tensile Unlocking Strength	Maximum Bundle Diameter	Qty/Pkg.
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### Weatherproof Black

R-TF-3HX	5.8"	.138"	#8	30 lbs.	1-1/4"	100
R-TF-3HX-M	(14.9 cm)	(2.54 mm)		(13.6 kg)	(3.1 cm)	1000
R-TF-5HX	8"	.177"	#10	50 lbs.	1-3/4"	50
R-TF-5HX-M	(20.3 cm)	(4.9 mm)		(22.7 kg)	(4.4 cm)	1000
R-TF-7HX	15.7"	.298"	1/4"	120 lbs.	4"	25
R-TF-7HX-D	(39.8 cm)	(7.56 mm)		(54.4 kg)	(10.1 cm)	500

### Natural

R-TF-3H	5.8"	.138"	#8	30 lbs.	1-1/4"	100
R-TF-3H-M	(14.9 cm)	(2.54 mm)		(13.6 kg)	(3.1 cm)	1000
R-TF-5H	8"	.177"	#10	50 lbs.	1-3/4"	50
R-TF-5H-M	(20.3 cm)	(4.9 mm)		(22.7 kg)	(4.4 cm)	1000
R-TF-7H	15.7"	.298"	1/4"	120 lbs.	4"	25
R-TF-7H-D	(39.8 cm)	(7.56 mm)		(54.4 kg)	(10.1 cm)	500



## SPECIALTY CABLE TIES

Part No.	Approx. Length	Minimum Tensile Unlocking Strength	Maximum Bundle Diameter	Qty/Pkg.
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### Colour & Fluorescent Cable Ties

R-TF3-[X]	4.1"	18 lbs.	7/8" (2.22 cm)	100
R-TF3-[X]-M	4.1"	18 lbs.	7/8" (2.22 cm)	1000
R-TF4-[X]	5.8"	40 lbs.	1-7/16" (3.65 cm)	100
R-TF4-[X]-M	5.8"	40 lbs.	1-7/16" (3.65 cm)	1000
R-TF5-[X]	7.5"	50 lbs.	1-7/8" (4.76 cm)	100
R-TF5-[X]-M	7.5"	50 lbs.	1-7/8" (4.76 cm)	1000
R-TF6-[X]	11.2"	50 lbs.	3-1/16" (7.78 cm)	100
R-TF6-[X]-M	11.2"	50 lbs.	3-1/16" (7.78 cm)	1000
R-TF8-[X]	14.5"	50 lbs.	4-1/8" (10.47 cm)	100
R-TF8-[X]-M	14.5"	50 lbs.	4-1/8" (10.47 cm)	1000
R-CT15120-[X]	15.1"	120 lbs.	4-1/16" (10.3 cm)	50
R-CT15120-[X]-D	15.1"	120 lbs.	4-1/16" (10.3 cm)	500

### Assorted Colours (20 ea Red, Orange, Yellow, Green and Blue)

R-CT07-50-AC	7.5"	50 lbs.	1-7/8" (4.76 cm)	100
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### Assorted Fluorescent (20 ea Fluorescent Colours - Green, Pink, Yellow, Orange and Blue)

R-CT07-50-AF	7.5"	50 lbs.	1-7/8" (4.76 cm)	100
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For ordering purposes, replace the [X] with colour #:

1 Brown	5 Green	11 Fluorescent Green
2 Red	6 Blue	12 Fluorescent Pink
3 Orange	7 Purple	13 Fluorescent Yellow
4 Yellow	8 Gray	14 Fluorescent Orange
		15 Fluorescent Blue





## Single Wall Shrink Tubing (SWT)

### Highly Flame-retardant Low Shrink Temperature Polyolefin Tubing

Widely used to insulate and protect in-line components, terminals and splices. Designed to relieve strain on electrical wire connections for long term reliability. Used to bundle wires for very flexible light-duty harnesses.

#### Features & Benefits

- 2:1 shrink ratio
- UL recognized, CSA certified
- UL VW-1 and CSA OFT flame-retardancy
- 90°C shrink temperature reduces installation time and risk of damage to components
- Very flexible; minimal wrinkle when bent
- Higher temperature rating, better thermal stability and higher resistance to physical abuse than non-crosslinked materials

#### Product Characteristics:

Shrink Ratio	Approximately 2:1
Minimum shrink temperature	70°C (158°F)
Minimum full recovery temperature	90°C (194°F)
Operating temperature range	-55°C to 135°C (-67°F to 275°F)

Size	Inside Diameter		Qty/ Pkg.	Part No. 12" Lengths	Part No. 100' Spool	Part No. Bulk Spool
	Min. Expanded Size as supplied	Max. Recovered After Heating				
1/8"	.135" (3.43mm)	.062" (1.6mm)	25	R-SWT-1/8-12-#	R-SWT-1/8-C-#	R-SWT-1/8-B-#
3/16"	.205" (5.21mm)	.093" (2.4mm)	25	R-SWT-3/16-12-#	R-SWT-3/16-C-#	R-SWT-3/16-B-#
1/4"	.280" (7.11mm)	.125" (3.2mm)	25	R-SWT-1/4-12-#	R-SWT-1/4-C-#	R-SWT-1/4-B-#
3/8"	.400" (10.16mm)	.187" (4.8mm)	15	R-SWT-3/8-12-#	R-SWT-3/8-C-#	R-SWT-3/8-B-#
1/2"	.540" (13.72mm)	.250" (6.4mm)	10	R-SWT-1/2-12-#	R-SWT-1/2-C-#	R-SWT-1/2-B-#
3/4"	.805" (20.45mm)	.375" (9.5mm)	5	R-SWT-3/4-12-#	R-SWT-3/4-C-#	R-SWT-3/4-B-#
1"	1.055" (25.53mm)	.500" (12.7mm)	5	R-SWT-1-12-#	R-SWT-1-C-#	R-SWT-1-B-#

\* Wall thickness will be less if tubing recovery is restricted during shrinkage.

#### Ordering Information

To order:

To specify a colour, replace the # in the part number with a colour code:

Black (-X), Red (-2), Yellow (-4), Green (-5), Blue (-6), White (-9)

Standard Packaging:

12" (-12) cut lengths; 100' (-C); bulk spools (-B)

Bulk Spool Lengths:

1/8"	500'
3/16"	500'
1/4"	250'
3/8"	200'
1/2"	150'
3/4"	250'
1"	250'

Specifications/Approvals:

Series

UL  
E35586 VW-1  
600 V, 125°C

CSA  
LR31929 VW-1  
600 V, 125°C

Military  
AMS-DTL-23053/5  
Classes 1 and 3





## Single Wall Shrink Tubing - Clear Series (SWT Clear)

### Flexible, Flame-retardant, General Purpose Polyolefin Tubing

Designed to provide superior mechanical (abrasion, cut-through, and strain relief), thermal, and fluid-resistance performance in demanding environments. Widely used to provide insulation and strain relief of wire terminations and connections. Used for jacketing wire bundles and light-duty harnesses where superior abrasion resistance is a plus. Exceptional transparency allows for easy wire identification and makes it an ideal choice for protecting marked surfaces.

#### Features & Benefits

- 2:1 shrink ratio
- Superior abrasion and solvent resistance
- Meets or exceeds military or industrial standards
- Flexible; conforms to irregular shapes



#### Product Characteristics:

Shrink Ratio	Approximately 2:1
Minimum shrink temperature	95°C (203°F)
Minimum full recovery temperature	121°C (250°F)
Operating temperature range	-55°C to 135°C (-67°F to 275°F)

Size	Inside Diameter		Qty/ Pkg.	Part No. 12" Lengths	Part No. 100' Spool	Part No. Bulk Spool
	Min. Expanded Size as supplied	Max. Recovered After Heating				
1/8"	.125" (3.2mm)	.062" (1.6mm)	5	R-SWTC-1/8	R-SWTC-1/8-C	R-SWTC-1/8-B
3/16"	.187" (4.8mm)	.093" (2.4mm)	5	R-SWTC-3/16	R-SWTC-3/16-C	R-SWTC-3/16-B
1/4"	.250" (6.4mm)	.125" (3.2mm)	5	R-SWTC-1/4	R-SWTC-1/4-C	R-SWTC-1/4-B
3/8"	.375" (9.5mm)	.187" (4.8mm)	5	R-SWTC-3/8	R-SWTC-3/8-C	R-SWTC-3/8-B
1/2"	.500" (12.7mm)	.250" (6.4mm)	5	R-SWTC-1/2	R-SWTC-1/2-C	R-SWTC-1/2-B
3/4"	.750" (19.1mm)	.375" (9.5mm)	5	R-SWTC-3/4	R-SWTC-3/4-C	R-SWTC-3/4-B
1"	1.000" (25.4mm)	.500" (12.7mm)	5	R-SWTC-1	R-SWTC-1-C	R-SWTC-1-B

\* Wall thickness will be less if tubing recovery is restricted during shrinkage.

#### Ordering Information

Bulk Spool Lengths:	1/8"	500'
	3/16"	500'
	1/4"	250'
	3/8"	200'
	1/2"	150'
	3/4"	250'
	1"	250'

Specifications/Approvals:	<b>Series</b>	Military
		AMS-DTL-23053/5
		Class 2
		VG 95343 Pt 5 Type B



## Dual Wall Encapsulant Lined Shrink Tubing (SCL)

### Semi-rigid, Encapsulant-lined Polyolefin Tubing

SCL provides moisture resistance, strain relief and electrical insulation for electrical splices, terminations, breakouts and mechanical connections. Heating SCL shrinks the outer jacket and melts the inner "encapsulant" wall to flow and fill surface irregularities.

#### Features & Benefits

- 3:1 shrink ratio
- Splash-resistant, moisture-resistant covering
- Rugged protection against abrasion, vibration and flexing
- Excellent strain relief and insulation of weak points
- Higher temperature rating, better thermal stability and higher resistance to physical abuse than non-crosslinked materials

#### Product Characteristics:

Shrink Ratio	Approximately 3:1
Minimum shrink temperature	125°C (257°F)
Minimum full recovery temperature	135°C (275°F)
Operating temperature range	-55°C to 110°C (-67°F to 230°F)

Size	Inside Diameter		Qty/Pkg. 12" Lengths	Part No. 12" Lengths	Qty/Pkg. 48" Lengths	Part No. 48" Lengths
	Min. Expanded Size as supplied	Max. Recovered After Heating				
1/8"	.125" (3.2mm)	.023" (0.6mm)	20	R-SCL-1/8	10	R-SCL-1/8-48-#
3/16"	.187" (4.8mm)	.060" (1.5mm)	20	R-SCL-3/16	10	R-SCL-3/16-48-#
1/4"	.250" (6.4mm)	.080" (2.0mm)	20	R-SCL-1/4	10	R-SCL-1/4-48-#
3/8"	.375" (9.5mm)	.135" (3.4mm)	15	R-SCL-3/8	10	R-SCL-3/8-48-#
1/2"	.500" (12.7mm)	.195" (5.0mm)	10	R-SCL-1/2	6	R-SCL-1/2-48-#
3/4"	.750" (19.1mm)	.313" (8.0mm)	5	R-SCL-3/4	4	R-SCL-3/4-48-#
1"	1.000" (25.4mm)	.400" (10.0mm)	5	R-SCL-1	4	R-SCL-1-48-#

\* Wall thickness will be less if tubing recovery is restricted during shrinkage.

#### Ordering Information

Standard Colours: Black (-X), Red (-2)

12" Lengths  
To order red, add -2 to the end of the part number

48" Lengths

Specifications/Approvals:	Series	UL	Military
		E85381 600 V, 125°C	AMS-DTL-23053/4 Class 1



Remove "R-" from Part No. to order bulk quantities.

## Dual Wall Adhesive Lined Shrink Tubing (DWA)

### Flame-retardant, High Shrink Ratio Adhesive-lined (Semi-rigid) Polyolefin Tubing

DWA is designed for insulating and sealing splices in an under-the-hood automotive environment. The inner wall with its unique, specially formulated hot-melt adhesive forms an outstanding barrier against automotive fluids and moisture, helping to protect the harness from the effects of corrosion and water wicking.

#### Features & Benefits

- Offers rugged protection against abrasion, vibration, and flexing
- DWA has a high shrink ratio, only a few sizes are needed to cover a wide range of splice and component diameters
- Adhesive bonds to a wide variety of plastics, rubber, and metals, including polyethylene, neoprene, and steel
- Extended temperature range



#### Product Characteristics:

Shrink Ratio	Approximately 4:1
Minimum shrink temperature	110°C (230°F)
Minimum full recovery temperature	135°C (275°F)
Operating temperature range	-40°C to 130°C (-40°F to 266°F)

Size	Inside Diameter		Qty/Pkg. 12" Lengths	Part No. 12" Lengths	Qty/Pkg. 48" Lengths	Part No. 48" Lengths
	Min. Expanded Size as supplied	Max. Recovered After Heating				
.225"	.225" (5.72mm)	.050" (1.27mm)	10	R-DWA#1	10	R-DWA#1-48
.293"	.293" (7.44mm)	.065" (1.65mm)	10	R-DWA#2	10	R-DWA#2-48
.427"	.427" (10.85mm)	.095" (2.41mm)	6	R-DWA#3	6	R-DWA#3-48
.700"	.700" (17.78mm)	.175" (4.45mm)	4	R-DWA#4	4	R-DWA#4-48

\* Wall thickness will be less if tubing recovery is restricted during shrinkage.

#### Ordering Information

Standard Colours: Black

Specifications/Approvals: **Series** UL  
E85381  
600 V, 125°C



Remove "R-" from Part No. to order bulk quantities.



## Dual Wall Adhesive Lined Shrink Tubing (DWA Clear)

### Clear, High Shrink Ratio, Adhesive-lined, Semi-rigid Polyolefin Tubing

Specially designed for environmental sealing and electrical insulation of wire splices, terminations, and components where see through inspection is required.

#### Features & Benefits

- 4:1 shrink ratio allows a few sizes to cover a wide range of splice and component diameters
- Mechanically tough jacket provides strain relief and abrasion protection of wire splices, terminals and other components
- Thick adhesive liner forms an effective barrier against fluids and moisture and performs well at an extended temperature range

#### Product Characteristics:

Shrink Ratio	Approximately 4:1
Minimum shrink temperature	110°C (230°F)
Minimum full recovery temperature	135°C (275°F)
Operating temperature range	-40°C to 130°C (-40°F to 266°F)

Size	Inside Diameter		Qty/Pkg. 12" Lengths	Part No. 12" Lengths	Qty/Pkg. 48" Lengths	Part No. 48" Lengths
	Min. Expanded Size as supplied	Max. Recovered After Heating				
.225"	.225" (5.72mm)	.050" (1.27mm)	10	R-DWAC#1-12	10	R-DWAC#1-48
.293"	.293" (7.44mm)	.065" (1.65mm)	10	R-DWAC#2-12	10	R-DWAC#2-48
.427"	.427" (10.85mm)	.095" (2.41mm)	6	R-DWAC#3-12	6	R-DWAC#3-48
.700"	.700" (17.78mm)	.175" (4.45mm)	4	R-DWAC#4-12	4	R-DWAC#4-48

\* Wall thickness will be less if tubing recovery is restricted during shrinkage.

#### Ordering Information

Standard Colours: Clear



Remove "R-" from Part No. to order bulk quantities.

Specifications/Approvals: **Series** UL  
E85381  
600 V, 125°C





## Dual Wall Flexible Adhesive Lined Shrink Tubing (FDWA)

### Flexible, High Shrink Ratio, Adhesive-Lined, Polyolefin Tubing

Environmentally seals and protects a wide variety of electrical applications, including wire splices, breakouts, and connector-to-cable transitions. Ideal for applications where UL and CSA certified adhesive-lined tubing is required.

#### Features & Benefits

- 3:1 shrink ratio allows for insulation and sealing of irregular shapes
- Medium wall provides increased mechanical protection while maintaining flexibility when installed
- Adhesive bonds to a wide variety of plastics, rubber, and metals including neoprene and steel



#### Product Characteristics:

Shrink Ratio	Approx. 3:1
Minimum Shrink Temperature	80°C (176°F)
Minimum Full Recovery Temperature	125°C (257°F)
Operating Temperature Range:	-40°C to 110°C (-40°F to 230°F)

Size	Inside Diameter		Qty/Pkg. 12" Lengths	Part No. 12" Lengths	Qty/Pkg. 48" Lengths	Part No. 48" Lengths
	Min. Expanded Size as supplied	Max. Recovered After Heating				
1/8"	.125" (3.2mm)	.040" (1.0mm)	20	R-FDWA-1/8	10	R-FDWA-1/8-48-#
3/16"	.187" (4.8mm)	.060" (1.5mm)	20	R-FDWA-3/16	10	R-FDWA-3/16-48-#
1/4"	.250" (6.4mm)	.080" (2.0mm)	20	R-FDWA-1/4	10	R-FDWA-1/4-48-#
3/8"	.375" (9.5mm)	.120" (3.0mm)	15	R-FDWA-3/8	10	R-FDWA-3/8-48-#
1/2"	.500" (12.7mm)	.157" (4.0mm)	10	R-FDWA-1/2	6	R-FDWA-1/2-48-#
3/4"	.750" (19.1mm)	.230" (6.0mm)	5	R-FDWA-3/4	4	R-FDWA-3/4-48-#
1"	1.000" (25.4mm)	.320" (8.0mm)	5	R-FDWA-1	4	R-FDWA-1-48-#

\* Wall thickness will be less if tubing recovery is restricted during shrinkage.

#### Ordering Information

Standard Colours: Black (-X), Red (-2)

12" Lengths  
To order red, add -2 to the end of the part number

48" Lengths  
To specify a colour, replace the # in the part number with a colour code



Remove "R-" from Part No. to order bulk quantities.

Specifications/Approvals:

Series

CSA

UL

LR31929  
600 V, 125°C

E35586  
600 V, 125°C







## Heat Shrink Caps (HSC)

### Semi-rigid, Encapsulant-lined Polyolefin Caps

HSC Caps offer an improved, inexpensive way to encapsulate crimped electrical connections, including those on motor coils. Their encapsulant lining melts and flows to fill surface irregularities of the substrate. These vibration-proof caps are used to insulate and terminate dead-end electrical cables, fixtures, connectors and other electrical components.

#### Features & Benefits

- Permanent or temporary way to terminate wires
- Rapid, simple installation
- HSC caps provide a splash-resistant, moisture-resistant covering
  - not intended for use where immersion in fluids is required
- Rugged protection against abrasion, vibration and flexing

#### Product Characteristics:

Shrink Ratio	Approx. 3:1
Minimum shrink temperature	125°C (257°F)
Minimum full recovery temperature	135°C (275°F)
Operating temperature range	-55°C to 110°C (-67°F to 230°F)

Size	Length		Inside Diameter		Recovered Wall Thickness*	Part No.
	Nominal Overall as supplied	Min. Open Barrel as supplied	Min. Expanded After Heating	Max. Recovered After Heating	Total Wall After Heating	
1/8"	.87" (22.0mm)	.50" (12.7mm)	.125" (3.2mm)	.023" (0.58mm)	.048" (1.22mm)	R-HSC1/8
3/16"	1.00" (25.4mm)	.60" (15.2mm)	.187" (4.8mm)	.060" (1.52mm)	.062" (1.57mm)	R-HSC3/16
1/4"	1.12" (28.4mm)	.60" (15.2mm)	.250" (6.4mm)	.080" (2.03mm)	.078" (1.98mm)	R-HSC1/4
3/8"	1.25" (31.8mm)	.72" (18.3mm)	.375" (9.5mm)	.090" (2.29mm)	.082" (2.08mm)	R-HSC3/8
1/2"	1.50" (38.1mm)	.85" (21.6mm)	.500" (12.7mm)	.090" (2.29mm)	.100" (2.54mm)	R-HSC1/2

\* Wall thickness will be less if cap recovery is restricted during shrinkage.



Remove "R-" from Part No. to order bulk quantities.

#### Ordering Information

Standard Packaging:	10 / Blister box or in bulk
Standard Colour:	Black
Size Selection:	Always order the largest size that will shrink snugly over the component being covered
Specifications/Approvals:	<b>Series</b> UL

E85381  
600 V, 125°C



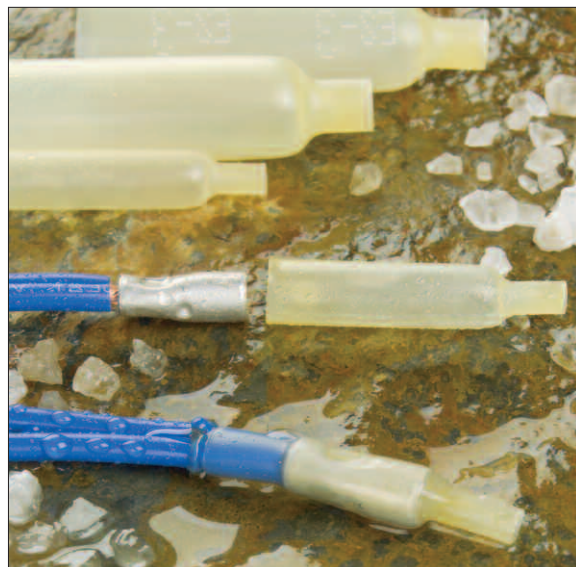
## Heat Shrink Caps (HSC-Clear)

### High-Shrink-Ratio, Adhesive-Lined, Semi-rigid Polyolefin Caps

Specially designed to provide mechanical and environmental protection of stub splices in electrical harnesses. Clear caps allow see-through inspection.

#### Features & Benefits

- 4:1 shrink ratio allows a few sizes to cover a wide range of splice and component diameters
- Mechanically tough jacket provides strain relief and abrasion protection of wire splices, terminals and other components
- Thick adhesive liner forms an effective barrier against fluids and moisture and performs well at an extended temperature range



#### Product Characteristics:

Shrink Ratio	Approx. 4:1
Minimum shrink temperature	100°C (212°F)
Minimum full recovery temperature	135°C (275°F)
Operating temperature range	-40°C to 105°C (-40°F to 221°F)

Standard Length supplied	Inside Diameter (Including Core)		Recovered Wall Thickness*			Part No.
	Min. Expanded as supplied	Max Recovered After Heating	Min. Total Wall After Heating	Min. Jacket Wall After Heating	Min. Adhesive Wall After Heating	
1.18" (30mm)	.225" (5.72mm)	.050" (1.27mm)	.047" (1.20mm)	.025" (0.64mm)	.022" (0.56mm)	R-HSC#1
1.18" (30mm)	.293" (7.44mm)	.065" (1.65mm)	.060" (1.52mm)	.030" (0.76mm)	.030" (0.76mm)	R-HSC#2
1.57" (40mm)	.427" (10.85mm)	.095" (2.41mm)	.075" (1.91mm)	.035" (0.89mm)	.040" (1.02mm)	R-HSC#3

\* Wall thickness will be less if cap recovery is restricted during shrinkage.



Remove "R-" from Part No. to order bulk quantities.

#### Ordering Information

Standard Packaging:	10 / Blister box or in bulk
Standard Colour:	Clear
Size Selection:	Always order the largest size that will shrink snugly over the component being covered.
Specifications/Approvals	<b>Series</b> UL

E85381  
600 V, 125°C





## Stainless Steel Cushioned Cable Clamps (with black rubber)

- Clamps are corrosion resistant and have a removable rubber cushion which helps cut vibration while protecting the loom or cables
- Typical application includes holding hydraulic hoses, wire harnesses, and cables
- The mounting hole is 17/64" for 1/4" screw or bolt
- When selecting cable clamps for use with wire loom, always choose the next size up from the size of the wire loom (for example, for 3/8" wire loom, use 1/2" clamps)

Bundle Diameter	Width	Qty/Pkg.	Description	Part No.
3/16" (4.8mm)	1/2" (12.7mm)	10	Stainless Steel	R-SSCC3/16
1/4" (6.4mm)	1/2" (12.7mm)	10	Stainless Steel	R-SSCC1/4
5/16" (7.9mm)	1/2" (12.7mm)	10	Stainless Steel	R-SSCC5/16
3/8" (9.5mm)	1/2" (12.7mm)	10	Stainless Steel	R-SSCC3/8
7/16" (11.1mm)	1/2" (12.7mm)	10	Stainless Steel	R-SSCC7/16
1/2" (12.7mm)	1/2" (12.7mm)	10	Stainless Steel	R-SSCC1/2
9/16" (14.3mm)	1/2" (12.7mm)	10	Stainless Steel	R-SSCC9/16
5/8" (15.9mm)	1/2" (12.7mm)	10	Stainless Steel	R-SSCC5/8
3/4" (19.1mm)	1/2" (12.7mm)	10	Stainless Steel	R-SSCC3/4
7/8" (22.2mm)	1/2" (12.7mm)	10	Stainless Steel	R-SSCC7/8
1" (25.4mm)	1/2" (12.7mm)	10	Stainless Steel	R-SSCC1
1 1/4" (31.8mm)	1/2" (12.7mm)	10	Stainless Steel	R-SSCC1-1/4
1 1/2" (38.1mm)	1/2" (12.7mm)	10	Stainless Steel	R-SSCC1-1/2
1 3/4" (44.4mm)	1/2" (12.7mm)	10	Stainless Steel	R-SSCC1-3/4
2" (50.8mm)	1/2" (12.7mm)	10	Stainless Steel	R-SSCC2
2 1/2" (63.5mm)	1/2" (12.7mm)	10	Stainless Steel	R-SSCC2-1/2
3" (76.2mm)	1/2" (12.7mm)	10	Stainless Steel	R-SSCC3



## Nylon Cable Clamps

- Designed to secure the routing of cables, harnesses, and hoses
- Radius edges protect against insulation abrasion and cutting hoses
- Quick alignment is achieved with bottom oval screw hole
- Accurate selection is made easy with clearly identified diameter sizes

Bundle Diameter	Width	Qty/Pkg.	Colour	Part No.
1/8" (3.2mm)	3/8" (9.5mm)	25	Natural	R-CC1/8
		25	Black	R-CCB1/8
3/16" (4.8mm)	3/8" (9.5mm)	25	Natural	R-CC3/16
		25	Black	R-CCB3/16
1/4" (6.4mm)	25/64" (9.9mm)	25	Natural	R-CC1/4
		25	Black	R-CCB1/4
5/16" (7.9mm)	25/64" (9.9mm)	25	Natural	R-CC5/16
		25	Black	R-CCB5/16
3/8" (9.5mm)	15/32" (11.9mm)	25	Natural	R-CC3/8
		25	Black	R-CCB3/8
1/2" (12.7mm)	15/32" (11.9mm)	25	Natural	R-CC1/2
		25	Black	R-CCB1/2
5/8" (15.8mm)	15/32" (11.9mm)	25	Natural	R-CC5/8
		25	Black	R-CCB5/8
3/4" (19.4mm)	15/32" (11.9mm)	25	Natural	R-CC3/4
		25	Black	R-CCB3/4
1" (25.4mm)	15/32" (11.9mm)	25	Natural	R-CC1
		25	Black	R-CCB1

## Polyethylene Black Split Loom

- Designed to hold and protect cables, harnesses, and hoses
- Quick and easy to install, slit automatically closes after installation
- UV Black provides excellent outdoor ultraviolet light protection

Material Low density polyethylene and linear low density polyethylene blend

Performance

Characteristics	Flexibility:	Excellent
	Abrasion Resistance:	Good
	Chemical Resistance:	Good
	Operating Temperature:	-40°C to 93°C (-40°F to 200°F)

### 50' Coiled & Bagged

Inside Diameter	Length	Pkg.	Part No.
1/4" (6.35mm)	50'	Polybag	R-PSL-1/4
3/8" (9.52mm)	50'	Polybag	R-PSL-3/8
1/2" (12.7mm)	50'	Polybag	R-PSL-1/2
5/8" (15.8mm)	50'	Polybag	R-PSL-5/8
3/4" (19.1mm)	50'	Polybag	R-PSL-3/4
1" (25.4mm)	50'	Polybag	R-PSL-1
1-1/4" (31.8mm)	50'	Polybag	R-PSL-1-1/4
2" (50.8mm)	50'	Polybag	R-PSL-2
2-1/2" (63.5mm)	50'	Polybag	R-PSL-2-1/2

### Bulk - Continuous Spool Lengths

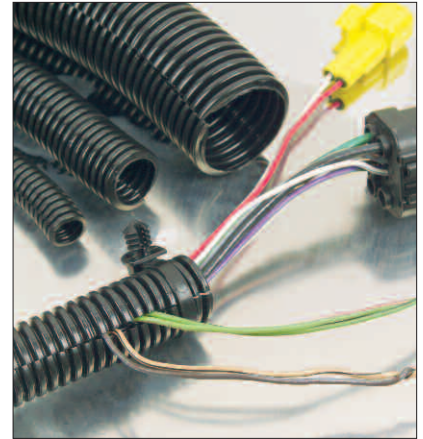
1/4" (6.35mm)	3,200'	Box	R-PSL-1/4B
3/8" (9.52mm)	1,900'	Box	R-PSL-3/8B
1/2" (12.7mm)	1,100'	Box	R-PSL-1/2B
5/8" (15.8mm)	800'	Box	R-PSL-5/8B
3/4" (19.1mm)	550'	Box	R-PSL-3/4B
1" (25.4mm)	300'	Box	R-PSL-1B
1-1/4" (31.8mm)	250'	Box	R-PSL-1-1/4B
1-1/2" (39.7mm)	150'	Box	R-PSL-1-1/2B
2" (50.8mm)	100'	Box	R-PSL-2B
2-1/2" (63.5mm)	500'	Box	R-PSL-2-1/2B

## Spiral Wrap

- Spiral protective sheathing wraps on like tape and allows flexible routing and break-outs of single/multiple wires
- Prevents kinking and curling of wires
- Absorbs vibration, insulates cables and protects wires from abrasion
- Quick and easy to install due to flexible polyethylene construction

### Packaged in 100 ft reels

Outside Dia.	Inside Dia.	Bundle Ranges	Colour	Part No.
.125" (3.17mm)	.061"	.0625" - .50"	Natural	R-SW1/8
			Black	R-SW1/8-X
.187" (4.74mm)	.127"	.125" - 1.5"	Natural	R-SW3/16
			Black	R-SW3/16-X
.250" (6.35mm)	.160"	.1876" - 2.0"	Natural	R-SW1/4
			Black	R-SW1/4-X
.375" (9.52mm)	.271"	.3125" - 3.0"	Natural	R-SW3/8
			Black	R-SW3/8-X
.500" (12.7mm)	.375"	.375" - 4.0"	Natural	R-SW1/2
			Black	R-SW1/2-X
.625" (15.8mm)	.500"	.50" - 4.5"	Natural	R-SW5/8
			Black	R-SW5/8-X
.750" (19.1mm)	.620"	.75" - 5.0"	Natural	R-SW3/4
			Black	R-SW3/4-X
1.00" (25.4mm)	.840"	1.00" - 7.00"	Natural	R-SW1
			Black	R-SW1-X







## Terminal & Tool Kit Box

- 21 compartment metal box with sturdy plastic tray insert and metal latch
- Provides organized storage for solderless terminals, connectors & crimping tool
- Reorder chart including illustrations and part numbers

Description	Size	Colour	Part No.
Terminal & Tool Kit Box	13.5" x 9.5" x 2"	Black	R-TK-BOX

## Solderless Terminal Kit

- 18 compartment plastic kit box with sturdy plastic tray insert
- Contains 450 of the most popular solderless terminals and connectors
- Reorder chart including illustrations and part numbers

Description	Size	Colour	Part No.
Solderless Terminal Kit	13.1" x 9" x 2.3"	Clear Plastic	R-002

### KIT CONTENTS:

22-18, 16-14, & 12-10 Butt Connectors  
 22-18 AWG Ring & Spade Terminals #10 Stud  
 16-14 AWG Ring & Spade Terminals #8, #10, & 1/4" Stud  
 12-10 AWG Ring & Spade Terminals #10 & 1/4" Stud  
 22-18 AWG Male & Female Disconnects, .250" Tab  
 16-14 AWG Male & Female Disconnects, .250" Tab  
 12-10 AWG Male & Female Disconnects, .250" Tab

## Automotive Electrical Repair Kit

- 21 compartment metal box with sturdy plastic tray insert and metal latch
- Contains 400 of the most popular terminals & connectors, cable ties, shrink tubing and crimping tool for the 22-10 AWG wire ranges
- Reorder chart including illustrations and part numbers

Description	Size	Colour	Part No.
Electrical Repair Kit	13.5" x 9.5" x 2.25"	Black	R-Terminal Kit-1

### KIT CONTENTS:

22-18, 16-14, & 12-10 Butt Connectors  
 22-18 AWG Ring Terminals #10 Stud  
 16-14 AWG Ring & Spade Terminals #6, & 3/8" Stud  
 12-10 AWG Ring & Spade Terminals #10 & 3/8" Stud  
 16-14 AWG Male & Female Disconnects, .250" Tab  
 16-14 AWG Male & Female Nylon Couplers, .250" Tab  
 16-14 AWG Snap Plug & Receptacles, .156" Tab  
 Specialty Connectors, Piggy-back & Multi-stack  
 22-10 AWG Professional Crimp Tool



## Single Wall Heat Shrinkable Tubing Kit

Six of the most popular sizes in an easily accessible re-closeable plastic box. The inside lid has a parts matrix identifying the individual re-order part numbers and descriptions.

### Product Features:

- 2:1 Shrink Ratio
- Minimum Shrink Temperature: 70°C (158°F)
- Operating Temperature Range: -55°C to 135°C (-67°F to 275°F)
- Electrically insulates and protects in-line components, disconnect terminals and splices
- Bundles wires for very flexible light-duty harnesses
- Identifies or colour codes wires, cables, terminals and components

Description	Part No.
Single Wall Heat Shrinkable Tubing Kit - Black	R-004
Kit contents: 50 pieces – 6" Cut Lengths, Black	
12 - 1/8", 12 - 3/16", 10 - 1/4", 6 - 3/8", 6 - 1/2", 4 - 3/4"	

## Dual Wall Heat Shrinkable Tubing Kit

Six of the most popular sizes of our dual wall, encapsulant lined heat shrinkable tubing in an easily accessible re-closeable plastic box. The inside lid has a parts matrix identifying the individual re-order part numbers and part descriptions.

### Product Features:

- 3:1 Shrink Ratio
- Minimum Shrink Temperature: 125°C (257°F)
- Operating temperature Range: -55°C to 110°C (-67°F to 230°F)
- Splash-resistant, moisture-resistant covering, not intended for immersion in fluids
- Rugged protection against abrasion, vibration and flexing; excellent strain relief

Description	Part No.
Dual Wall Heat Shrinkable Tubing Kit - Black	R-005
Kit Contents: 50 Pieces - 6" Cut Lengths, Black	
12 - 1/8", 12 - 3/16", 12 - 1/4", 6 - 3/8", 6 - 1/2", 2 - 3/4"	
Dual Wall Heat Shrinkable Tubing Kit - Red & Black	R-006
Kit Contents: 50 Pieces - 6" Cut Lengths, Black & Red	
12 - 1/8", 12 - 3/16", 12 - 1/4", 6 - 3/8", 6 - 1/2", 2 - 3/4"	
Quantities are evenly split between Black & Red	

## Dual Wall Adhesive Lined Heat Shrinkable Tubing Kit

Our premier tubing kit in a convenient re-closable plastic box. This tubing is specifically designed for environmentally sealing and electrical insulation of wire splices, terminations and components. The inside lid has a parts matrix identifying the individual re-order part numbers as well as part descriptions.

### Product Features:

- 4:1 Shrink Ratio
- Minimum Shrink Temperature: 110°C (230°F)
- Operating Temperature Range: -40°C to 130°C (-40°F to 266°F)
- Allows a few sizes to cover a wide range of splice and component diameters
- Thick adhesive lining forms an effective barrier against fluids and moisture
- Flame retardant and mechanically tough; provides strain relief and abrasion protection

Description	Part No.
Dual Wall Adhesive Lined Heat Shrinkable Tubing Kit	R-007
Kit Contents: 40 Pieces - 6" Cut Lengths, Black	
12 - .225", 12 - .293", 10 - .427", 6 - .700"	



## Heat Shrinkable Terminal & Connector Kit

120 of the most popular heat shrinkable crimp splices and terminals stored in a 12 compartment re-closeable plastic box. The inside lid has a parts matrix identifying the individual re-order part numbers as well as part descriptions.

### Product Features

- Provides a tough, environmentally sealed wire connection
- A stable, sealed wire connection ultimately eliminates the potential deterioration of the electrical system
- Protects splices from water, condensation, salt and corrosion
- Operating Temperature Range: -55°C to 125°C (-67°F to 257°F)

### Description

Part No.

Heat Shrinkable Terminal & Connector Kit

27-006H

### KIT CONTENTS:

22-18, 16-14, 12-10 Awg. Butt Connectors

16-14 Awg. Rings, #10, 1/4", 5/16" Stud

16-14 Awg Male & Female Disconnects .250" Tab

16-14 Awg. Spade # 10 Stud

12-10 Awg. Ring Terminals & 1/4" Stud

## Soldered Cable Termination Kit

This kit contains 141 pieces of heat shrink tubing, solder pellets and flux. When heated, the solder pellet provides a secure, soldered connection for maximum conductivity from wire to connector, then insulated with the adhesive-lined heat shrink tubing, ensuring each termination is protected from corrosion, contaminants, and current leakage.

### Product Features:

- Colour coded to industry standards
- Solder pellets are pre-measured to ensure the correct amount is used
- Solder slugs melting temperature rating 182°C (361°F)

### Description

Part No.

Soldered Cable Termination Kit

29-100

Kit contains 10 each of Solder Pellet for 6, 4, 2 and 1 AWG and 15 - 1/2" & 3/4" Dual Wall Shrink Tubing, Red & Black 80 6-1 AWG Copper Lugs and 1 Bottle of ELA-Flux (2 Oz.)

### Replacement Components:

AWG	Colour/Description		Qty/Pkg.	Part No.
Solder Pellets				
6	Grey		10	R-Slug-6
4	Grey		10	R-Slug-4
2	Green		10	R-Slug-2
1	Pink		10	R-Slug-1
1/0	Black		10	R-Slug-1/0
2/0	Orange		10	R-Slug-2/0
3/0	Purple		10	R-Slug-3/0
4/0	Yellow		10	R-Slug-4/0
Liquid Flux				
“No-Clean” Liquid Flux			2 oz. Bottle	R-LIQUID FLUX
Heat Shrink Tubing				
6 & 4	.50” I.D. Black	1.5” Cut Length	10	R-DWA-1/2-1.5
	.50” I.D. Red	1.5” Cut Length	10	R-DWA-1/2-1.5Red
4-1/0	.75” I.D. Black	1.5” Cut Length	10	R-DWA-3/4-1.5
	.75” I.D. Red	1.5” Cut Length	10	R-DWA-3/4-1.5Red
2/0-4/0	1.10” I.D. Black	1.5” Cut Length	10	R-DWA-1-1.5
	1.10” I.D. Red	1.5” Cut Length	10	R-DWA-1-1.5Red

## RC-31 Refillable Butane Fuel Cell

### For use with Microtorch MT-11

- Refillable with Master Ultratane® Butane
- Shipped full with non-clogging formula that promotes consistent ignition
- Meets ORM-D consumer commodity class and can be shipped via ground transportation without hazardous material charge
- Not considered a cigarette lighter
- Use as a refillable fuel cell to replace pre-childproof lighters used in Microtorch MT-11

Description	Part No.
Refillable butane fuel cell Carded 2 per card	27-069A

\* Users should independently evaluate the suitability of the product for their application.



## Ultratane® Butane

### Recommended for all Ultratorch® and Master butane-powered products

- Triple-refined formula reduces clogging of filters
- Special vapor pressure promotes consistent ignition
- Contains no CFC's, canister with single-piece universal filling tip
- Two convenient sizes: 5 - 1/8 oz. (145g) and 15/16 oz. (26.5g) canister
- Use to fuel all Master butane-powered products

Description	Qty	Case Qty	Part No.
5-1/8 oz. (145 g) canister	1	12	27-069C
3-3/4 oz. (106 g) canister	1	4	11799



## EC100 Ecoheat® Heat Gun

### Economical, lightweight multi-use heat gun

- Two heat settings: 260°C or 537°C (500°F or 1000°F)
- Two fan speeds: Low & High (7 or 9 CFM)
- Lightweight - 1lb. - eliminates operator fatigue
- 3-wire grounded cord set, a positive grounding system for user safety
- Thermoplastic housing for high impact durability
- Built-in stand allows user to set heat gun down in an upright position

### Specifications:

Air Volume	7 and 9 CFM
Air Velocity	720 and 1100 FPM
Motor	Permanent Magnet
Nozzle Opening	1.2" I.D., 1.35" O.D.
Cordset	6 ft., 3-wire grounded
Dimensions	8.5" L x 3.2" W x 7.7" H

Description	Voltage	Part No.
Ecoheat® Heat Gun	120V, 10A, 1200W	EC-100
Ecoheat® Heat Gun Kit	120V, 10A, 1200W	EC-100K

### Kit Contents:

EC-100 Heat Gun  
7/8" reducer attachment  
1 1/4" shrink tubing reflector  
1-15/16" and 3-1/8" spreader attachments  
Packed in a durable storage & carrying case





## MJ-950 Flameless Heat Gun

### Portable, self-igniting multi-function heat tool

- Cordless & flameless; OEM approved
- Comes with an attachable heat deflector, cooling tray and replacement orifice
- The wide nozzle has a high output long life catalyst
- Ready to use in 125 seconds; adjustable heat settings
- Gas container capacity: 20 ml
- Recommended butane: Triple Refined

### Specifications

Continuous Operating Temperature	250°C to 500°C (480°F to 930°F)
Maximum Temperature Rating	750°C (1400°F)
Dimensions	7 1/2" long

### Description

Flameless Heat Gun

### Part No.

MJ-950



## MT-70 Triggertorch™

- “Hands-free” slide lock for continuous use and instant operation
- Ergonomic handle design ensures a non-slip grip
- Removable base for table-top or hand-held use
- 60 minute continuous run time with a full charge

- Gas adjustment wheel provides adjustable, long blue torch flame
- Self-igniting piezo electric ignition is easy to start and eliminates the need for a lighter or matches
- Incorporates “trigger” switch with “pulldown” lock to meet Consumer Products Safety Commission (CPSC) Child Safety Requirements
- Unique shutter lever to easily extinguish ignition flame if using optional soldering or hot air tip attachments

### Description

Triggertorch™  
- includes table top stand

### Part No.

MT-70



## Heavy Duty Wire Stripper & Cutter

- Self-adjusting wire stripper
- Adjustable stopper enables user to pre-determine required strip length and can be swiveled if user does not require this function
- Cuts and strips 24-10 AWG copper or aluminum wire - solid or stranded

Description	Part No.
24-10 AWG Heavy Duty Wire Stripper	AT-WS

## Heavy Duty Rotary Cable Slitter/Stripper Tool

- Slits and strips insulation cleanly for round battery and trailer cable
- Blade swivels for longitudinal/spiral cuts

Description	Part No.
Heavy Duty Rotary Stripper 6 AWG to 500 MCM (14mm <sup>2</sup> to 250mm <sup>2</sup> )	AT-RS

## Professional Hand Crimp Tool



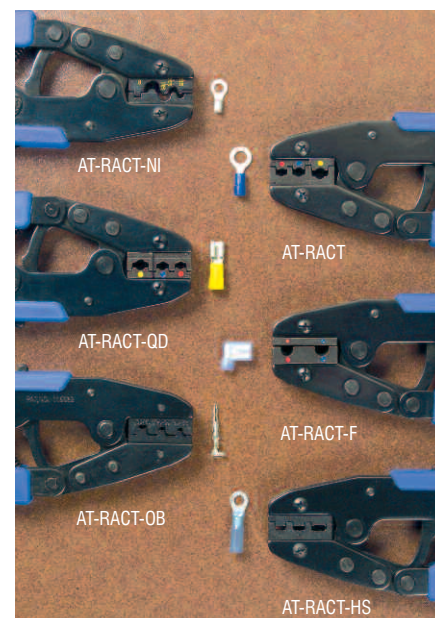
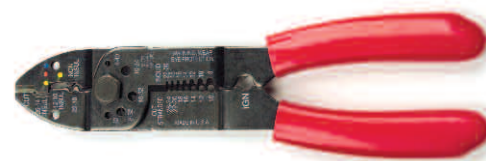
- Designed for occasional users who insist on a reliable termination
- Produces crimps to industry standards
- Compact, lightweight construction provides a new level of accuracy and versatility at a cost effective price
- Crimps conductor portion of insulated and non-insulated terminals from 22-10 AWG

Description	Part No.
1020 Crimp Tool	AT-CT-1020

## Ratchet Action Crimp Tools

- Designed for the professional that insists on the best available commercial grade full cycle crimp tool
- System integrity is maintained when components are terminated with this tool
- Ergonomic progressive pivoting design provides maximum crimping force with reasonable hand pressure
- Ratcheted design eliminates variability from crimp to crimp

Description	Part No.
Ratchet Action Crimp Tool for Uninsulated Terminals 22-8 AWG (1.25mm <sup>2</sup> to 5.5mm <sup>2</sup> )	AT-RACT-NI
Ratchet Action Crimp Tool for Insulated Terminals 22-10 AWG (1.25mm <sup>2</sup> to 5.5mm <sup>2</sup> )	AT-RACT
Ratchet Action Crimp Tool for Quick Disconnects 22-10 AWG (1.25mm <sup>2</sup> to 5.5mm <sup>2</sup> )	AT-RACT-QD
Ratchet Action Crimp Tool for Insulated Flag Terminals 22-10 AWG (1.25mm <sup>2</sup> to 5.5mm <sup>2</sup> )	AT-RACT-F
Ratchet Action Crimp Tool for Open Barrel Terminals 22-10 AWG (1.25mm <sup>2</sup> to 5.5mm <sup>2</sup> )	AT-RACT-OB
Ratchet Action Crimp Tool for Heat Shrinkable Terminals 22-10 AWG (1.25mm <sup>2</sup> to 5.5mm <sup>2</sup> )	AT-RACT-HS





AL-200



AL-300

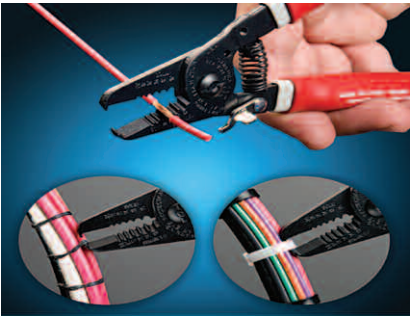


AL-900

### Cable Tie Tension Tool

- Quickly tensions and cuts off excess strap without leaving a sharp protrusion that can cause snags, cuts and abrasions to cable, hoses, products and users
- AL-200 and AL-900 automatically cuts off excess strap when tension setting is achieved
  - Produces consistent tension from tie to tie
  - Saves installation time with one easy pull of the trigger
- AL-300 is designed for larger cable ties and manually cuts off excess strap with the squeeze of the cut-off handle

Cut Off Type	Cable Tie Sizes	Part No.
Automatic	18, 40 & 50 lb.	AL-200
Manual handle	120 & 175 lb.	AL-300
Automatic	100 & 250 lb. Stainless Steel	AL-900



### Cable Tie Removal Tool & Lacing Cutter/Stripper

- Strips 22-12 AWG wire
- Safely removes cable ties & straps without harming bundled items
- Safety guards slide behind the cable tie strap to prevent the sharp blades from contacting the bundled items
- Comfortable and easy to use
- Ergonomic, cushion grip handles designed to fit your hand, maximize natural hand contraction motion
- Assisted with an auto return spring

Description	Part No.
Recommended for 18 lb. to 250 lb. cable ties <ul style="list-style-type: none"><li>- pointed tip allows for a longer reach into tight areas</li><li>- 6.49" in length</li></ul>	MG-1400





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