

# STRESSTECH ESSENTIALS

STRESSTECH ON-SITE HEAT TREATING SOLUTIONS

## Quality Products from Stresstech

**Stresstech Heat Treating Essentials** are manufactured with the same quality and care as our world-class Heat Treating Consoles. Stresstech is the original equipment manufacturer and supplier of pre and post weld heat treating equipment, with a proven record of supplying the best heat treating equipment to national and international markets.

### Splitter Cables

Stresstech splitter cables are used to connect the heating elements to the triple cable sets. Camlok connectors with high-temperature sleeves provide a quick, positive connection to the heating elements and cable sets. Constructed with #6 welding cable, and available in standard 6 ft. lengths. Also available in custom lengths for your application.

<i>Splitter Cables</i>	
<i>2-way Splitter Cable</i>	<i>1200-8205</i>
<i>3-way Splitter Cable</i>	<i>1200-8210</i>
<i>4-way Splitter Cable</i>	<i>1200-8220</i>
<i>5-way Splitter Cable</i>	<i>1200-8230</i>
<i>6-way Splitter Cable</i>	<i>1200-8240</i>



**Splitter Cables**

### Power Cables

Our power cables are constructed from welding cable with a tough exterior formed over exceptionally flexible stranded copper wire and come complete with all connectors. Stresstech can manufacture power cables specifically for your requirements.



**Power Cables**

Stresstech triple cable sets are an assembly of two power cables joined together with a type "K" thermocouple lead.

<i>Power Cables</i>	
<i>25 ft. Power Lead, 2/0 Cable</i>	<i>1200-9520</i>
<i>50 ft. Power Lead, 2/0 Cable</i>	<i>1200-9521</i>
<i>100 ft. Power Lead, 2/0 Cable</i>	<i>1200-9522</i>
<i>100 ft. Triple, 2/0 Cable Set</i>	<i>1200-9523</i>
<i>50 ft. Triple, 2/0 Cable Set</i>	<i>1200-9524</i>
<i>25 ft. Triple, 2/0 Cable Set</i>	<i>1200-9525</i>
<i>100 ft. Triple, 1/0 Cable Set</i>	<i>1200-9623</i>
<i>50 ft. Triple, 1/0 Cable Set</i>	<i>1200-9624</i>

**STRESSTECH**  
HEAT TREATING

A Division of Mactech, Inc. • 4079 Pepin Ave. • Red Wing, MN 55066  
PH: 651-388-7117 • TOLL FREE: 800-328-1488 • FAX: 651-388-0337 • [www.mactechonsite.com](http://www.mactechonsite.com)

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## Thermocouples

Stresstech's type "K" thermocouples provide accurate temperature readings in pre and post heating of weldments and piping. All thermocouples can be used with resistance, induction and gas-fired methods, and are tested for accuracy and dependability at temperatures up to 1800° F.

**Thermocouple Jack and Plug** are one-piece molded components that eliminate the need for terminal caps and fasteners. Thermocouple wire can be easily inserted in seconds. These connectors hold 14 to 32 gauge wire. Type "K" with clearly marked polarity.

<b>Thermocouple Jack and Plug</b>	
Female Jack	1200-8930
Male Plug	1200-8931



### Thermocouples, Wire, Leads and Jumpers

<b>Thermocouples Wire, Leads and Jumpers</b>	
16 gauge, PVC/PVC, non-shielded wire	1200-8940
20 gauge, 1300° F wire	1200-8941
Thermocouple Weldet	1200-8950
Thermocouple, Stainless Steel, 18 inch	1200-8990
Thermocouple, Stainless Steel, 24 inch	1200-8991
Thermocouple, Stainless Steel, 36 inch	1200-8992
Jumper, Male-to-Male, 6 ft.	1200-8915
Thermocouple Lead, 25 ft.	1200-8920
Thermocouple Lead, 50 ft.	1200-8921
Thermocouple Lead, 100 ft.	1200-8922



### Thermocouple Jack and Plug

### Thermocouples, Wire, Leads and Jumpers

Thermocouple wire is available in a variety of styles and construction. Custom sizes and lengths are available.

- Stainless steel sheathed thermocouple, chromel/alumel sheathed in 1/8 inch diameter stainless steel tube. Stainless steel weldets are used to attach the thermocouple by tacking the weldet to the weldment and inserting the thermocouple into the 1/8 inch socket.
- 16 gauge polyvinyl/polyvinyl chromel/alumel, type "K" wire. Typically used for thermocouple extension leads.
- 20 gauge glass/glass chromel/alumel, type "K" wire. Typically used to attach to the weldment.
- Stresstech thermocouple leads and jumpers are constructed from 16 gauge PVC/PVC type "K", non-shielded wire, complete with all connectors.

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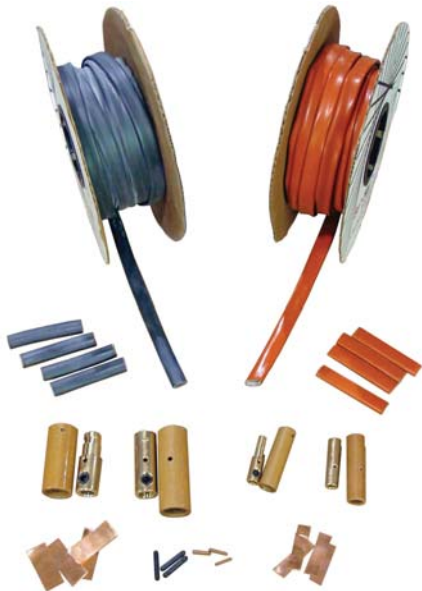
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## Camlock Connectors

Camlok connectors are the standard for the heat treating industry. The solid brass construction and double cam tooling provide a clean, positive contact, with minimal resistance for the high currents required for resistance heating.



**Camlok Connectors**

## RMS Current Clamp Meter

Features:

- Backlit LCD Display
- Operates on a 9 volt battery
- Measures AC or DC current up to 800 amps
- Peak hold selector retains maximum reading
- Measures AC or DC voltage up to 600 volts
- Measures up to 40M ohms
- Measures up to 1400° F
- Type "K" probe included
- Test leads included
- Calibration certificate and case included

<b>RMS Current Clamp Meter</b>	
RMS Current Clamp Meter	1200-5745

<b>Camlok Connectors</b>	
#8-#4 Female Camlok, complete	1200-2110
#8-#4 Male Camlok, complete	1200-2111
#8-#4 Female Camlok, brass only	1200-2112
#8-#4 Male Camlok, brass only	1200-2113
#8-#4 Female Camlok, insulator only	1200-2114
#8-#4 Male Camlok, insulator only	1200-2115
#8-#4 Insulator, Fiber Pin	1200-2116
Copper Shim, 60 amp	1200-2120
110-310 Female Camlok, complete	1200-2130
110-310 Male Camlok, complete	1200-2131
110-310 Female Camlok, insulator only	1200-2133
110-310 Male Camlok, insulator only	1200-2134
110-310 Insulator, Fiber Pin	1200-2135
Copper Shim, 300 amp	1200-2136
310-410 Female Camlok, complete	1200-2140
310-410 Male Camlok, complete	1200-2141
Male Camlok, Panel Mount	1200-2150
Female Camlok, Panel Mount	1200-2160
Red Sleeving, per foot	1200-8030
Red Sleeving Piece, 3 inch	1200-8031
Black Sleeving, per foot	1200-8040
Black Sleeving Piece, 3 inch	1200-8041



**RMS Current Clamp Meter**

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## Stress-Safe Insulation

Stresstech's Stress-Safe insulation blanket is composed of long length, continuous filament, amorphous silica fibers. The fibers are non-respirable, and safe to use without protective clothing. Stress-Safe insulation is stocked in 1 inch thick x 36 inch wide x 33 ft. long rolls.

<b>Stress-Safe Insulation</b>	
<i>Stress-Safe Insulation Roll</i>	<i>1200-4925</i>

Stresstech also offers traditional ceramic fiber insulation in 6 lb. and 8 lb. density. It is rated at an operating temperature of 2400° F. Ceramic fiber insulation is suitable for insulating heating elements, pipe work and pressure vessels. The blanket is pliable and usable for many applications, while being resilient and easy to fabricate. Ceramic fiber insulation is stocked in 1 inch thick x 24 inch wide x 25 ft. long rolls.

<b>Ceramic Fiber Insulation</b>	
<i>Ceramic Fiber Insulation Roll</i>	<i>1200-4910</i>

## Consumables

**Banding** is used for strapping heating elements and/or insulation onto piping for preheating or stress relieving. Banding clips are reinforced stainless steel for extra strength. The banding tool trims, cuts and locks the banding.

### Stresstemp Thermocouple Putty

prevents heat transfer from heating elements to thermocouples during pre and post heat, and protects thermocouples from weld spatter during preheat. Available in 10 lb. tubs or 25 application syringes. Our dispensing syringes make application quick, clean and reduces waste.



**Stress-Safe Mesh Blanket**

**Reusable Mesh Blankets** are made by enclosing Stress-Safe or ceramic fiber insulation in a stainless steel woven wire mesh, which allows for repetitive use. This keeps the blanket intact during rough handling, and makes it the most durable blanket on the market.

Stress-Safe and ceramic fiber reusable mesh blankets are stocked in 1 ft. and 2 ft. widths, up to 12 ft. lengths. Special sizes are available upon request.

<b>Consumables</b>	
<i>Banding, 1/2 inch wide x 200 ft. long, Non-magnetic, Stainless Steel</i>	<i>1200-8310</i>
<i>Banding Clips, 100 per box</i>	<i>1200-8320</i>
<i>Banding Tool</i>	<i>1200-8330</i>
<i>Stresstemp Thermocouple Putty Syringe, 25 applications</i>	<i>1200-4960</i>
<i>Stresstemp Thermocouple Putty, 10 lb. tub</i>	<i>1200-4963</i>
<i>Tie-wire, 16 gauge</i>	<i>1200-9710</i>
<i>Strapping Tape</i>	<i>1200-8510</i>
<i>Pin, 3 inch, 12 gauge</i>	<i>1200-3371</i>
<i>Washer, 1-1/2 inch, 12 gauge</i>	<i>1200-4946</i>

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