KITE LIGHT **PRODUCTS**

HEAT SHRINKABLE SOLDER CONNECTORS
SOLDERING WITH HOT AIR

KITE LIGHT Heat solder connectors **changing the way cable is linked , so that all users can have "The Perfect Connection".**

KITE LIGHT **Heat solder connectors** are pre-fluxed to resist corrosion. The solder - alloy barrels provide high electrical conductivity and low resistance by increasing the area of contact between the wires.

To ensure a proper connection, follow all instructions completely.
The electrical system is a vital component of every piece of equipment.

The main causes of electrical failure can be categorized as ;

CORROSION built-up at the connection and can cause a drop in current or complete disconnection of the circuit.
Electrical tape, the most common means of preventing corrosion , does not provide a moisture proof seal, but ;

KITE LIGHT **Heat solder connectors** takes care of this problem, **all in one step**.

VIBRATION can cause connections weakened by corrosion or inadequate strain relief to break off.

KITE LIGHT **Heat solder connectors** offers strain relief protection, far superior to current products.

MISS-CONNECTED PARTS results from poorly installed connectors.
A common problem is faulty connection at installation, caused by lack or excess crimping force.

KITE LIGHT **Heat solder connectors eliminates all of this problems ! These products feature;**

HEAT SHRINKABLE CONSTRUCTION -a combination of solder connection and heat shrinkable tubing gives this product excellent long-term vibration resistance and strain relief.

PULL-OUT STRENGHT – **50 Kg** for KITE LIGHT **Heat solder connectors**, compared to 20 Kg for a standard butt splice.

EASY SOLDER LINK with KITE LIGHT **Heat solder connectors** provides the finest link between two wires.
Yet it has always been very time consuming and frustrating to perform this process.

KITE LIGHT **Heat solder connectors** does all of this **in one easy step** to save installation time while providing **"The perfect connection".**

ADHESIVE LINED SLEEVE – when the connector is heated to shrink the tubing, the adhesive flows and seals the connection. This gives a superior environmental and moisture-proof seal that prevents corrosion.

PRODUCT CHARACTERISTICS

Typical properties for the installed splices;

Melting temperature	126˚ C - 145˚ C
Temperature Rating	- 55˚ C - +95˚ C
Dielectric Strength	15 KV / mm²
Insulation Resistance	10^{13} Megohms
Military Spec. Tubing	Mil-I-23053/4, Class1 AMS-3634
Military Spec. Solder	QQ5571E, MIL-S-14256
Pull-out strength	Up to 50 Kg
Voltage Drop	Less than equal length of wire

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INSTRUCTIONS

HEAT SHRINKABLE SOLDER CONNECTORS

1) Strip wires ± 9 mm
2) Determine proper KITE LIGHT heat solder connector for gauge of wire (see table 1)
3) Slide KITE LIGHT heat solder connector over one end (fig.**1**)
4) Push both ends together to intermingle wires
5) Slide KITE LIGHT heat solder connector over joined wires, till solderring is positioned in the center of stripped part. (fig. **2**)
6) Apply heat from center to each end of the sleeve, use MICRO-THERM™ flameless heat gun or other hot-air heating tool, till the sleeve is recovered.
   Focus heat on solder at the edge until it flows
   Do not use open flame **!** Avoid overheating by setting correct temperature (± 250º C) .
   Rotating heat source and / or use heat-shrink Attachment (70-01-55).
7) Let splice cool down for a perfect connection

Table 1

Yellow	10 - 12 AWG = 2.5 – 6.0 mm²
Blue	14 - 16 AWG = 1.0 -- 2.5 mm²
Red	22 - 18 AWG = 0.5 -- 1.0 mm²
Clear	26 - 24 AWG = 0.1 -- 0.5 mm² - Recommended for LyTec™ Wires

fig. 1

fig. 2

EASY CONNECT

ASSEMBLING INSTRUCTIONS FOR

LyTec™ Electroluminescent Light Wires

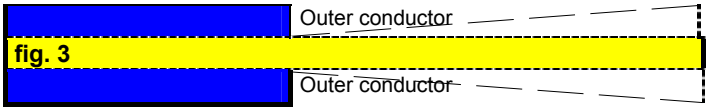
1) Strip ***LyTec***™ **wire** ± 4½ cm (fig.**3**) with the ***LyTec***™ ***wire stripper*** (fig.**4**)
2) Wrap the 2 thin outer conductors around the electroluminescent inner conductor just under the edge from the outer insulation layer (fig.**5**)
3) Slide the KITE LIGHT Heat solder connector for LyTec™ wires * over the edge, till the solderring is positioned over the (wrapped) outer conductors (fig. **6**)
4) Put **one** of the output wires from the Inverter (or other electrical cable) with the stripped end into the unit, between the solderring and outer conductors (fig.**7**).
5) Than follow step 6 and 7 from instructions
6) NOW YOU HAVE -**IN A SHORT TIME**- A PERFECT AND STRONG CONNECTION WITH THE TWO HAIR THIN EXTERNAL. CONDUCTORS
7) Solder the other output wire from the Inverter (or the other end from the electrical cable) to the inner conductor and cover it with a piece of heat shrinking tube.

* note

KITE LIGHT Heat solder connectors for ***LyTec***™ wires (Clear), fits on all ***LyTec***™ wires, from 1.2 to 3.5mm

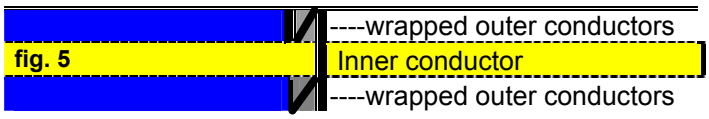
KITE LIGHT PRODUCTS

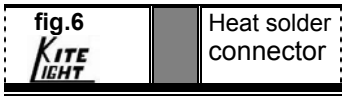
ASSEMBLING INSTRUCTIONS FOR *LyTec*™ WIRES
-with Heat Solder Connectors-

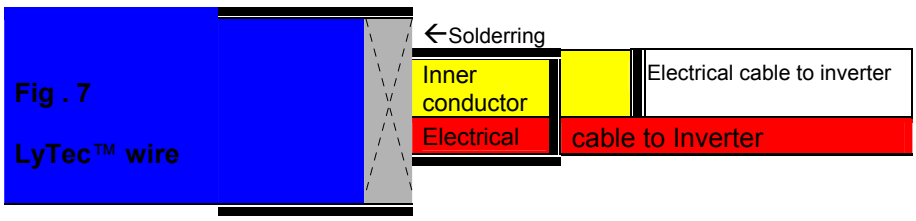


(fig. 4 LyTec Wire Stripper)

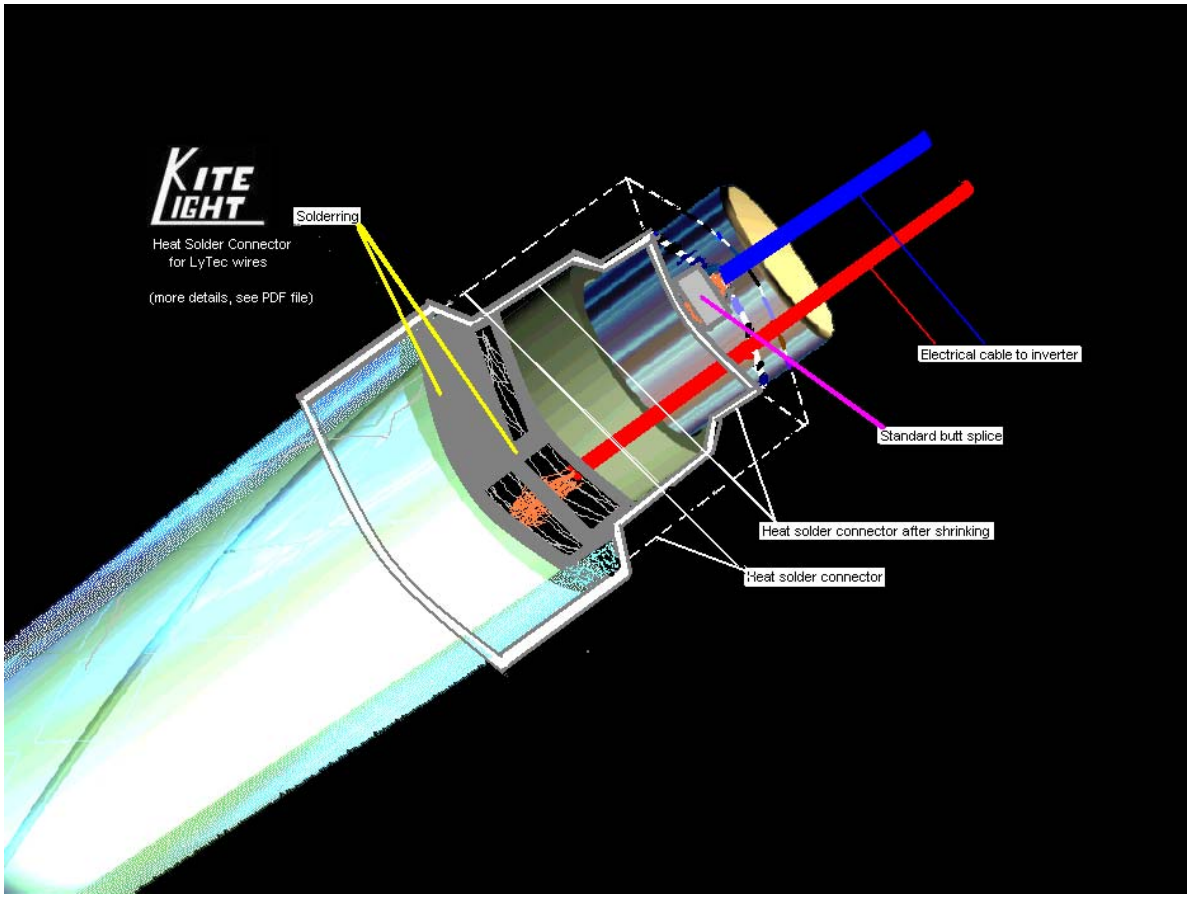
LyTec™ Wire







See other page for Refillable Heating and Soldering tools


KITE LIGHT
Heat Solder Connector
for LyTec wires
(more details, see PDF file)
Solderring
Electrical cable to inverter
Standard butt splice
Heat solder connector after shrinking
Heat solder connector