

# ALFA<sup>®</sup> COMPRESSION TAPE

A revolutionary product that is changing the way industry insulates electrical connections and repairs leaking pipes.



TYPE TEST  
BS EN 50393:2006  
**ASTA BEAB**  
CERTIFIED

Compression tape combines ultra fast self fusion with high tensile strength.

- water tight electrical cable jointing and termination (BS EN 50393:2006)
- leaking pipe repair without reducing the pressure or turning off the flow
- high voltage insulation
- highly UV resistant
- exceptional lifespan even when buried or submersed
- functions in low or high temperatures
- non-toxic, safe for use in direct contact with drinking water
- easily applied, instant repair
- environmentally responsible, replacing hazardous materials
- saves time and money





LLFA® Compression Tape can be used as a stand alone product. It seals when applied with "maximum stretch", and gives mechanical protection when applied with "minimum stretch".

### Fusion

With LLFA® Compression Tape fusion is almost instantaneous. This is an important factor when splicing or protecting a connection that is subject to high humidity or even submergence.

### Electrical insulation

Straight and branch joints spliced with LLFA®, from the smallest to the biggest cable size, have undergone European standard testing to BS EN 50393:2006. This jointing method has successfully met all the requirements of the standard to make it the first compression tape jointing solution available in the EU.

### Instant leak repair

LLFA® Compression Tape is used to repair leaking pipes without turning off the flow. A punctured hose or pipe tightly wrapped with LLFA® Compression Tape will immediately withstand internal pressure. The pressure will not push between the "fusing layers" because the fusion takes place so quickly (even when wet).

### Abrasion resistance

LLFA® Compression Tape, due to its unique formulation and manufacturing process, is resistant to abrasion and split propagation. Applying a final layer with minimum tension will increase abrasion resistance.

### Temperature stability

Other products decrease or lose adhesion in extreme cold or humid conditions. LLFA® Compression Tape as a "CLASS H" material will continue to perform at these temperatures. LLFA® does not have to be kept warm in the cold or vice versa.

### Environmentally responsible

LLFA® Compression Tape is environmentally friendly and is replacing solutions that are hazardous. LLFA® Compression Tape is also classed as normal waste, and is approved by the Water Regulations Advisory Scheme for use in direct contact with drinking water, both hot and cold.



<b>Dielectric Strength</b>	LLFA®40 = 16,000V per 1mm
<b>Tensile Strength</b>	> 1200 PSI throughout temperature range.
<b>Breaking Strength</b>	> 15 lbs
<b>Tear Resistance</b>	> 125 PSI
<b>Water Absorption</b>	<< 0.5%
<b>Temperature Range</b>	-90°C through to 260°C
<b>Elongation</b>	> 325%
<b>Track Resistance</b>	Non conductive surface
<b>UV Resistance</b>	Highly UV resistant.
<b>Ozone Resistance</b>	Highly ozone resistant.
<b>Durometer Hardness</b>	55 - 65
<b>Adhesion (Fusion)</b>	Standard requirement: "Tape shall not unwind more than 1.0 inch after 3 minutes with an attached load of 600g." Result: LLFA® Tape < 1inch
<b>Acids and Alkaline</b>	No negative effect from brief exposure to acids and alkaline and can withstand submersion up to 3 days.
<b>Self Extinguishing</b>	UL standard 94 rating V-0. Tested to IEEE383 and IEEE1212 for flammability - self extinguishes and will not propagate a flame.
<b>Smoke Toxicity</b>	NF X 70 - 100: 2006 test results indicate a C.I.T. value of 5.20. BS6853: 1999: Annex B test results indicate an R-value of 0.37.
<b>Water Safety</b>	BS6920 results indicate that LLFA® Tape is suitable for use in direct contact with drinking water up to 85°C. (WRAS Approved)
<b>Standard Compliance</b>	BS EN50393:2006, BS6920, ASTM D2240, A-A-59163, ASTM D-149, ASTM D-412, MIL-I-46852, ASTM D2148, ASTM D3767 (LLFA® specifications meet other international standards not included in this list.)



#### LLFA® 40

PN: R1-5-8A  
Width: 25.4mm (1 inch)  
Length: 10.91m (12 yards)  
Thickness: 1mm (0.04in)

#### To Order:

LLFA 40 Red  
LLFA 40 Black

**LLFA 40 also available in 1m packs**  
Red 461-880  
Black 461-884

#### RS Stock No:

461-896  
461-890



#### LLFA® Smooth

PN: R1-5-8C-S  
Box Contains: >113 grams  
Texture: Putty like compound used for filling voids.

LLFA smooth  
(Red only)

#### RS Stock No:

461-874



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