

ALFA[®] COMPRESSION TAPE

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



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.



Dielectric Strength	LLFA®40 = 400VPM (16,000V per 1mm)
Tensile Strength	> 1200 PSI throughout temperature range.
Breaking Strength	> 15 lbs
Tear Resistance	> 125 PSI
Water Absorption	<< 0.5%
Temperature Range	-90°C through to 260°C
Elongation	> 325%
Track Resistance	Prevent electrical conduction along its surface.
UV Resistance	Highly UV resistant.
Ozone Resistance	Highly ozone resistant.
Durometer Hardness	55 - 65
Adhesion (Fusion)	Standard requirement: “Tape shall not unwind more than 1.0 inch after 3 minutes with an attached load of 600g.” Result: LLFA® Tape < 1 inch
Acids and Alkaline	No negative effect from brief exposure to acids and alkaline and can withstand submersion up to 3 days.
Self Extinguishing	UL standard 94 rating V-0. Tested to IEEE383 and IEEE1212 for flammability - self extinguishes and will not propagate a flame.
Smoke Toxicity	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.
Water Safety	BS6920 results indicate that LLFA® Tape is suitable for use in direct contact with drinking water up to 85°C. (WRAS Approved)
Standard Compliance	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)



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