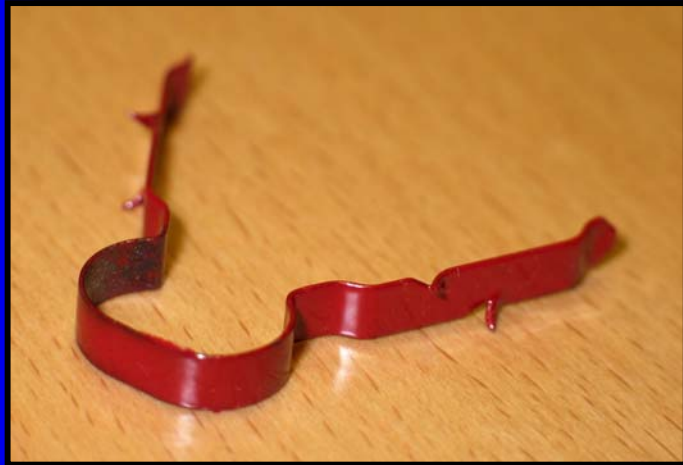


# The Linian Clip



Designed & Manufactured by  
The Linian Supply C<sup>o</sup>. Ltd

Distributed by  
P&I Supplies Ltd  
34-38 Payne Street  
Glasgow, UK  
(Patent Pending)

An innovative new method of  
high quality cable installation  
involving

- Less time
  - Less labour
  - Less material
- &

• **Less cost**

# Background

- Customer requested a significantly faster, less labour intensive alternative to conventional method of clipping MICC cable to brickwork.

# Existing Clip Method



- **Problem** - Excessively labour and material intensive
- **Challenge** - Produce a cost and time saving alternative, uncompromising in quality and aesthetics

# Solution – “The Linian Clip”



- **Linian Clip Benefits**

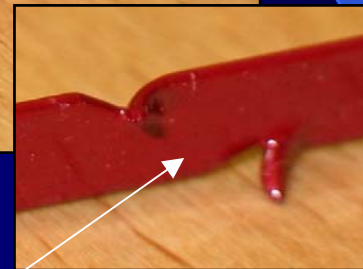
- Easier and safer method of installation
- Secure means of multi-surface fixing
- High quality product compliant with BS 5839
- Temperature melting point 2500 °F
- Aesthetically pleasing finish
- Vastly reduced installation time
- Reduced material and labour costs

# Easier and safer method of installation

- No assembly required
- Less components parts
- No insertion tool (i.e. screwdriver) required
- To achieve a secure fixing, simply
  1. position clip around cable,
  2. compress legs of **Linian Clip** together using thumb and index finger,
  3. introduce to fixing hole,
  4. then push in with thumb.



# How does it work ?



Interpon D36  
Coating

Fixing Barb

# Secure means of multi-surface fixing

- Independent strength 'pull-out' test conducted by Scientifics Group Services Ltd
- 12.4kg force required to 'pull-out' clip

# BS 5839 Compliant

- Cables and Interconnections
- “ Fireproof cables are preferred for fire alarm installations. However, as a minimum they must be utilised for any circuits that are required to operate after detection of a fire e.g. sounder circuits, power supplies and signalling interconnections. **Fireproof cables require fireproof supporting clips.**”



# Linian Clip Properties

- The **Linian Clip** is constructed of spring steel with a melting point of 2500°F
- Interpon D36 powder coating subjected to
  - Mechanical tests
    - Hardness
    - Impact
    - Flexibility
  - Corrosion Tests
    - Acidity
    - Humidity
    - Chemical Resistance
    - Mortar Resistance
    - Etc
  - Weathering Tests
    - Exterior Durability
    - Accelerated Weather Testing

# Vastly reduced installation time

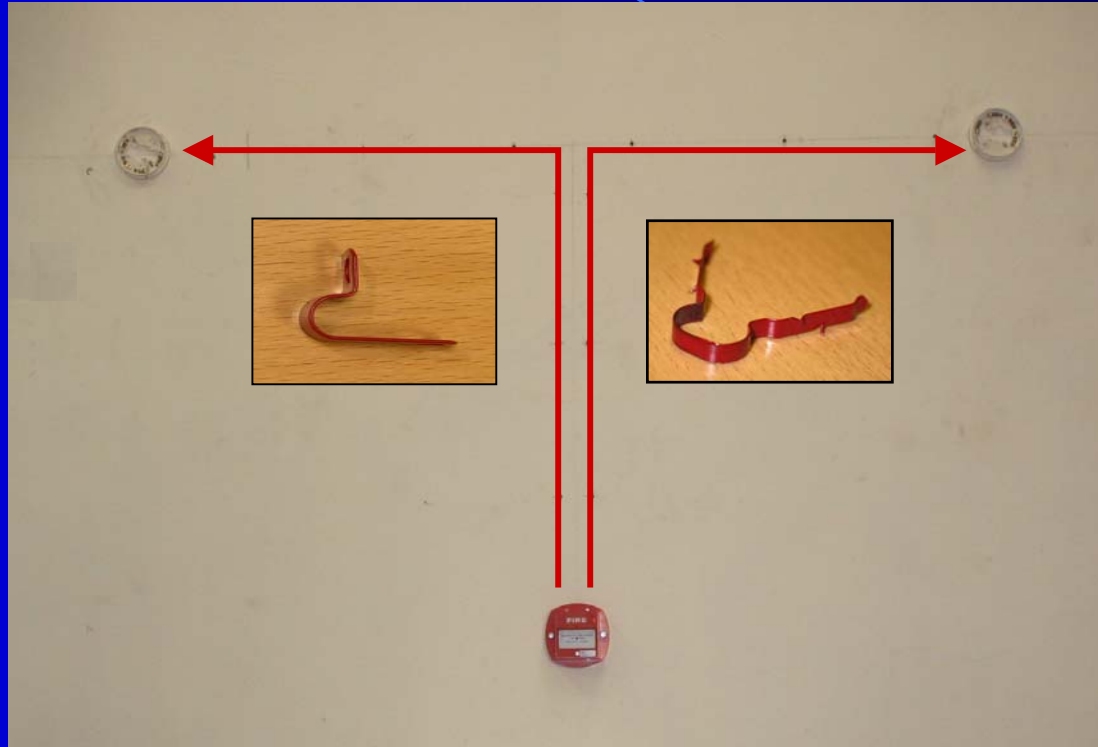
Less  
Parts

No  
Tool

No  
Assembly

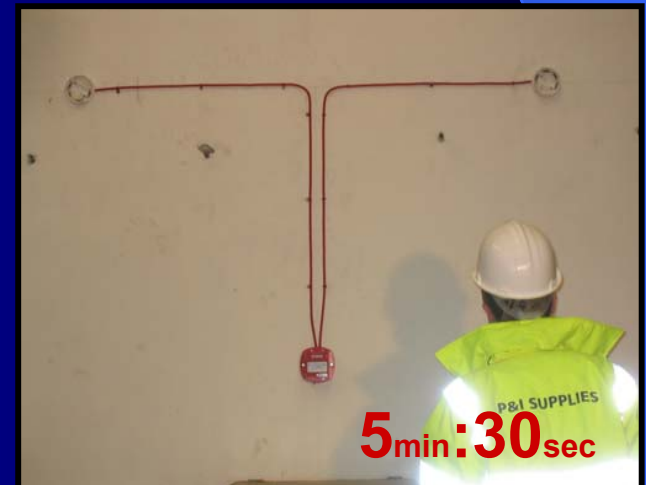
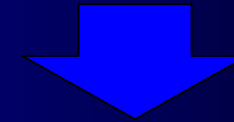
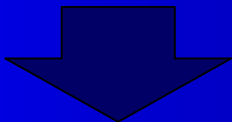
Reduced Installation Time  
&  
Labour Costs

# Time Trial Experiment



- One side clipped by conventional method, while the other used the **Linian Clip**

# Time Trial Results



# Installation Time Comparison



- Using **Linian Clip** showed a **70%** reduction in installation time

# Reduced material and labour costs

- 70% saving in installation time and labour costs

# Summary of Linian Clip Benefits

	Ease & Safety	Multiple Surface Applications	Temperature Tolerance	Finish	Quality	Time	Labour Cost	Material Cost
	✓	✓	✓	✓	✓	✓	✓	✓
		✓	✓		✓			