

# POWR-GARD® Fuse

## TLS SERIES TELECOM POWER FUSE

170 V dc • Current-Limiting • 1–125 A



### Description

Littelfuse TLS series fuses are designed specifically for the protection of telecommunications equipment. TLS fuses have been engineered to operate up to 170 V dc to provide current-limiting short-circuit protection for cables and components found in the dc power distribution circuits of telecommunications systems. The compact design and multiple mounting configurations of the TLS series allow it to be used in a variety of applications.

### Features

- 170 V dc rating
- Current-limiting
- 1–125 amperes rating
- Multiple mounting configurations — cartridge, vertical, leaded, bolt-in, or solder type. See dimensions on the following two pages for mounting style details.
- RoHS Compliant

### Recommended Fuse Holders

- LFTD series disconnect switches
  - LFT30060 for TLS series cartridge style fuse
- Contact factory for more information.

### Web Resources

For additional information, visit: [Littelfuse.com/tls](http://Littelfuse.com/tls)

### Specifications

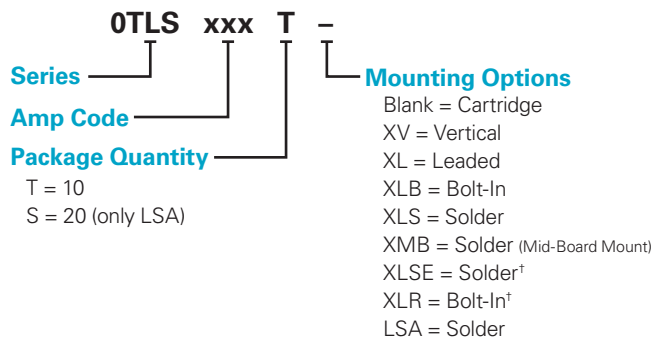
|                            |                                                   |
|----------------------------|---------------------------------------------------|
| <b>Voltage Rating</b>      | 170 V dc                                          |
| <b>Ampere Range</b>        | 1–125 amperes                                     |
| <b>Interrupting Rating</b> | 100 kA                                            |
| <b>Approvals</b>           | UL Recognized (File: E71611)                      |
| <b>Construction</b>        | Body: glass melamine<br>Caps: silver-plated brass |
| <b>Environmental</b>       | RoHS Compliant, lead (Pb) free                    |

### Ordering Information

| AMPERE RATINGS |    |    |    |      |
|----------------|----|----|----|------|
| 1              | 6  | 25 | 50 | 90   |
| 2              | 10 | 30 | 60 | 100  |
| 3              | 15 | 35 | 70 | 110* |
| 5              | 20 | 40 | 80 | 125* |

\*Available in standard cartridge, LSE solder, and LR bolt-in.

### Part Numbering System



| SERIES | AMPERE | MOUNTING METHOD | MOUNTING SUFFIX | CATALOG NUMBER | ORDERING NUMBER | FUSE LABEL ID |
|--------|--------|-----------------|-----------------|----------------|-----------------|---------------|
| TLS    | 6      | Cartridge       | —               | TLS006         | OTLS006.T       | TLS 6A        |
| TLS    | 15     | Vertical        | V               | TLS015V        | OTLS015.TXV     | TLS 15A-V     |
| TLS    | 35     | Leaded          | L               | TLS035L        | OTLS035.TXL     | TLS 35A-L     |
| TLS    | 50     | Bolt-In         | LB              | TLS050LB       | OTLS050.TXLB    | TLS 50A-LB    |
| TLS    | 80     | Solder          | LS              | TLS080LS       | OTLS080.TXLS    | TLS 80A-LS    |
| TLS    | 100    | Solder          | MB              | TLS100MB       | OTLS100.TXMB    | TLS 100A-MB   |
| TLS    | 125    | Solder          | LSE             | TLS125LSE      | OTLS125.TXLSE   | TLS 125A-LSE  |
| TLS    | 125    | Bolt-In         | LR              | TLS125LR       | OTLS125.TXLR    | TLS 125A-LR   |
| TLS    | 30     | Solder          | LSA             | TLS030LSA      | OTLS030.SLSA    | TLS 30A-LSA   |

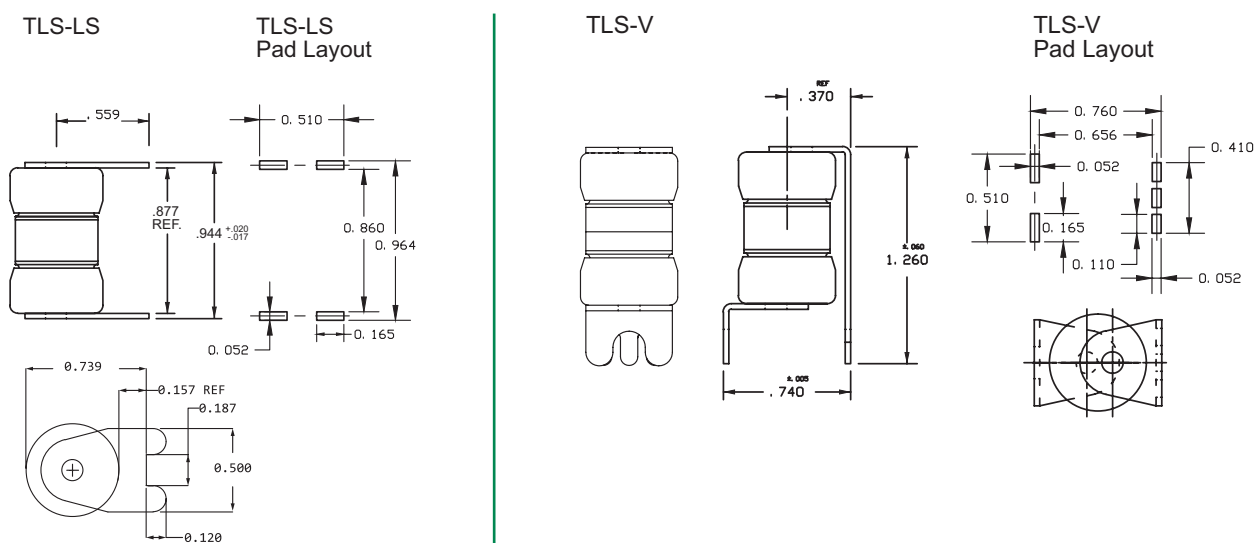
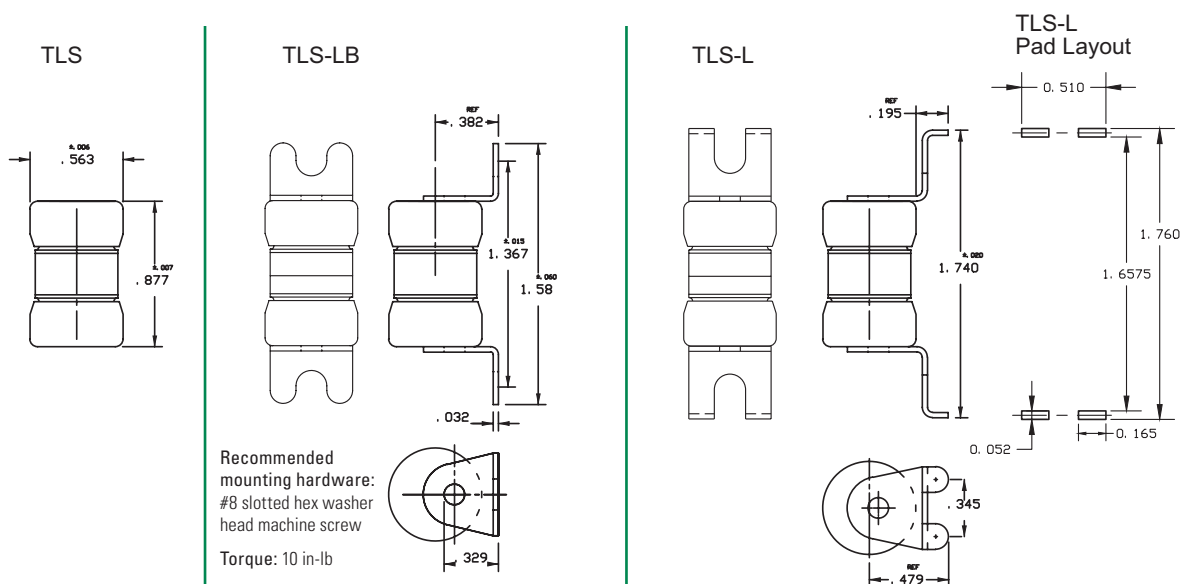
†Option is available for 35 to 125 amperage only

# POWR-GARD® Fuse

## TLS SERIES TELECOM POWER FUSE

### Dimensions

Inches

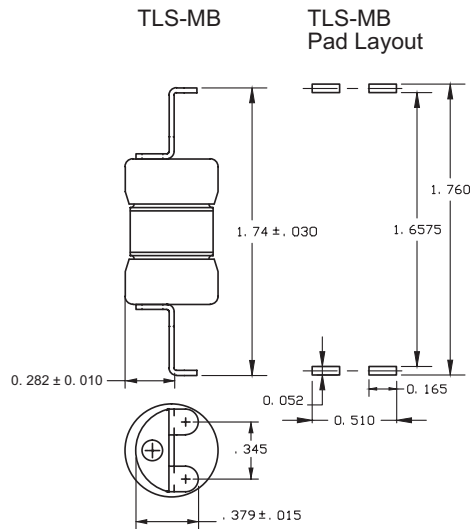


# POWR-GARD® Fuse

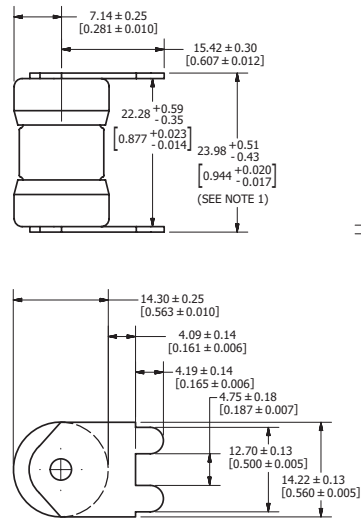
## TLS SERIES TELECOM POWER FUSE

### Dimensions

#### Inches

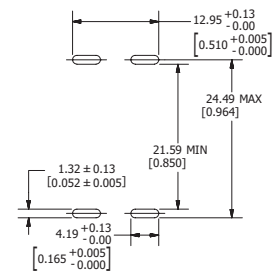


**TLS-LSE**  
Dimensions are mm (in)

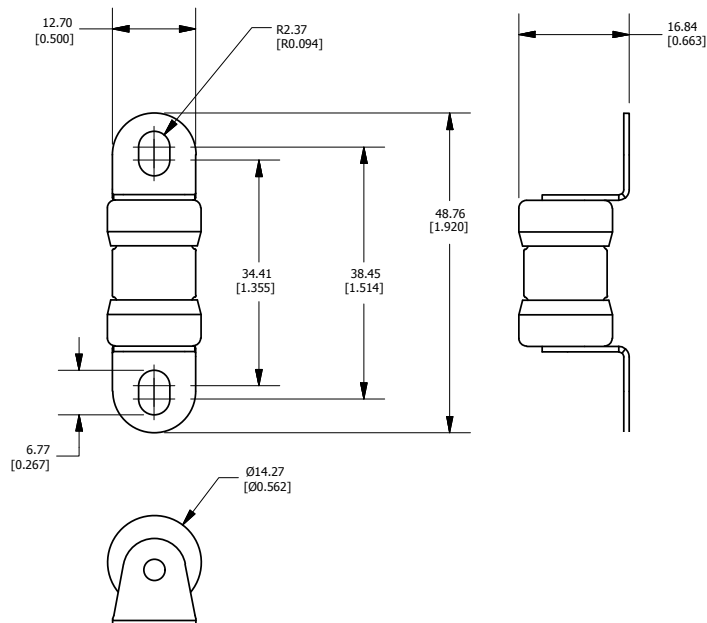


Note 1: Measurement taken at end of terminals

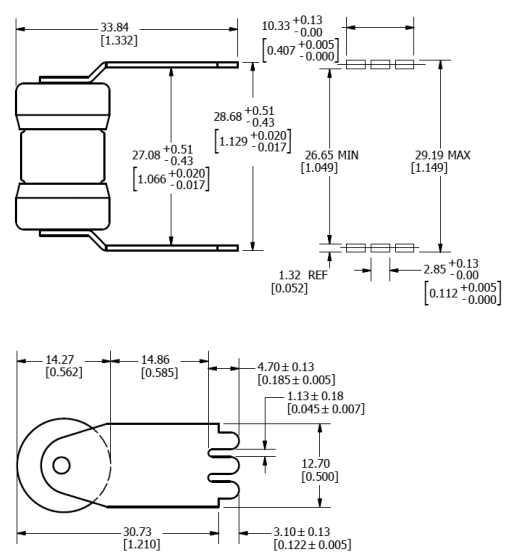
**TLS-LSE**  
Pad Layout



**TLS-LR**  
Dimensions are mm (in)



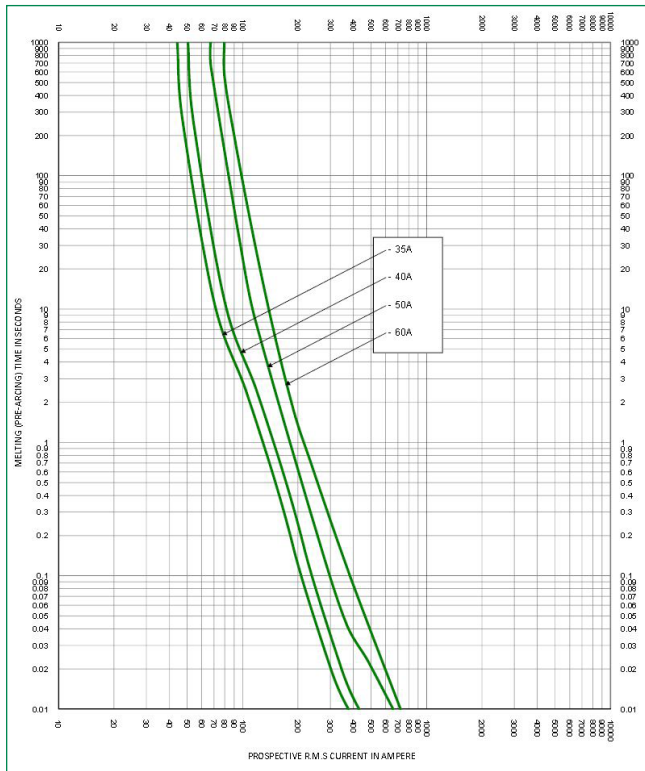
**TLS-LSA**  
Dimensions are mm (in)



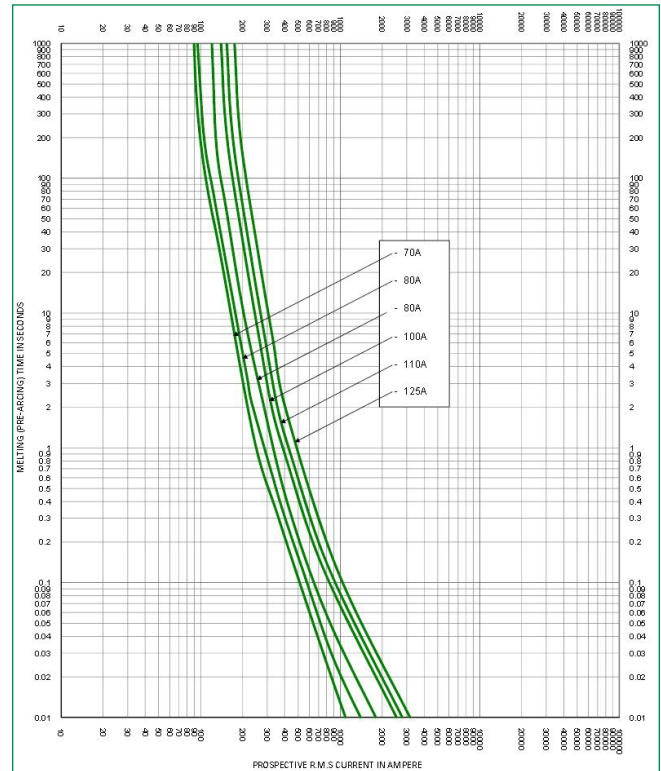
# POWR-GARD® Fuse

## TLS SERIES TELECOM POWER FUSE

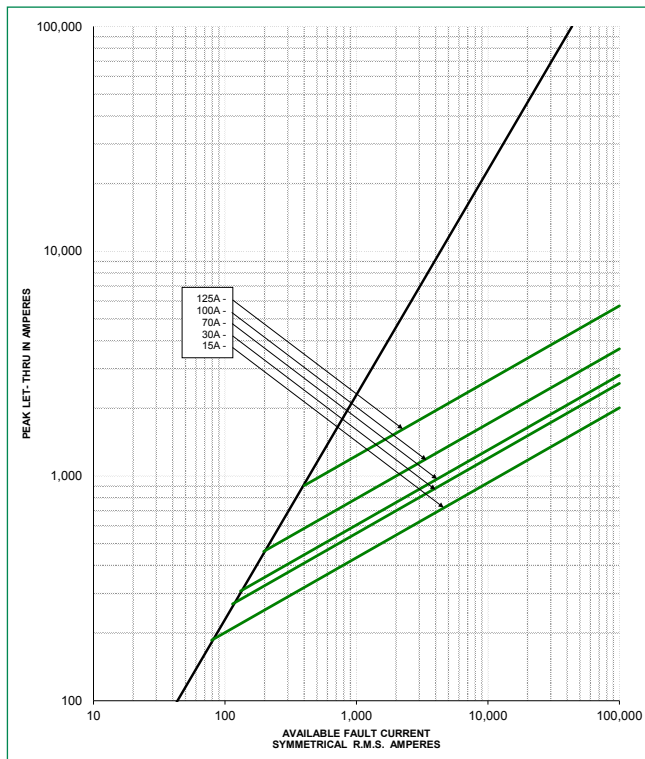
### TLS Time-Current Curve 35–60 A



### TLS Time-Current Curve 70–125 A



### TLS Peak Let-Through Curve



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