Section Overview

Rely on Littelfuse for short circuit protection of telecommunications circuits and sensitive DC power distribution circuits.





Table of Contents

L17T Series Telecommunications Power Fuse	50
TLN Series Telecommunications Power Fuse	51
TLS Series Telecommunications Power Fuse	. 52
Alarm-Indicating Fuses	. 55
LTFD101 Telecommunication Disconnect Switch	. 56



L17T SERIES TELECOM POWER FUSE

170 Vdc • Current-Limiting • 70-1200 A





Description

Specifically designed for short-circuit protection of telecommunications circuits, the Littelfuse L17T series fuses provide reliable protection of sensitive DC power distribution systems. Constructed with silver plated elements for low l²t and peak let-through, these advanced fuses virtually eliminate equipment damage due to surges and spikes. The L17T series fuse unique element geometry also provides cooler running temperatures, helping to minimize heat within enclosures.

Features

- Low I²t
- · Extremely current-limiting
- Low operating temperature
- 170 Vdc rating

Specifications

Voltage Rating Interrupting Rating Ampere Range Approvals 170 Vdc 100 kA 70 – 1200 A

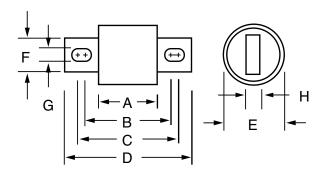
UL Recognized (File: E71611) CSA Recognized (File: LR29862)

Ordering Information

AMPERE RATINGS							
70	125	200	300	450	800	1100	
90	150	225	350	500	900	1200	
100	175	250	400	600	1000	_	

SERIES	VOLTAGE	AMPERAGE	CATALOG NUMBER	ORDERING NUMBER
L17T	170	1200	L17T 1200	L17T1200V

Dimensions Inches (mm)



AMPERE	DIMENSIONS INCHES (mm)							
RATING	Α	В	С	D	E	F	G	Н
70 – 250	1 ⁵ / ₃₂ (29.4)	1 ⁷ / ₈ (47.6)	2 ³ / ₁₆ (55.6)	2 ²¹ / ₃₂ (67.5)	1 (25.4)	⁷ / ₈ (22.2)	0.327 (8.3)	³ / ₁₆ (4.8)
300 – 800	1½ (31.8)	1 15/16 (49.2)	2 ⁹ ⁄ ₁₆ (65.1)	3½ (88.9)	1½ (38.1)	1 (25.4)	¹³ / ₃₂ (10.3)	½ (6.35)
900-1200	1 ¹¹ / ₃₂ (34.0)	_	_	4½16 (103.1)	2 (50.8)	1½ (38.1)	_	¹ / ₄ (6.35)

Web Resources

For additional information, visit:

Littelfuse.com/l17t

TLN SERIES TELECOM POWER FUSE

170 Vdc • Current-Limiting • 1-600 A





Description

The TLN Series fuses are specifically designed for the protection of telecommunications DC power distribution circuits.

Features

- 170 Vdc rating
- Fast-acting and current-limiting
- 1 to 600 amperes rating
- Dimensionally similar to 250 V Class R fuses

Specifications

Voltage Rating 170 Vdc **Interrupting Rating** 100 kA Ampere Range 1 - 600 A

Approvals UL Recognized (File: E71611)

Ordering Information

AMPERE RATINGS							
1	15	40	80	150	300	600	
3	20	45	90	175	350	_	
5	25	50	100	200	400	_	
6	30	60	110	225	450	_	
10	35	70	125	250	500	_	

SERIES	VOLTAGE	AMP	CATALOG NUMBER	ORDERING NUMBER
TLN	170VDC	6	TLN006	OTLN006.T

Replaces competitors' TPN and TGN Series.

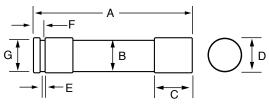
Web Resources

For additional information, visit:

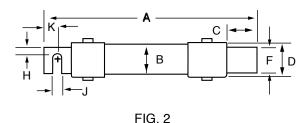
Littelfuse.com/tln

Recommended Fuse Holders

Dimensions Inches (mm)







DIMENSIONS INCHES (mm) FIGURE **AMPERES NUMBER** В C D G 1 - 302 (50.8) 1/2 (12.7) 1/2 (12.7) 9/16 (14.3) 5/64 (2.0) 5/32 (4.0) 3/8 (9.5) 35 - 603 (76.2) 3/4 (19.1) 5/8 (15.9) 13/16 (20.6) 3/32 (2.4) 3/16 (4.8) 5/8 (15.9) 70 - 1002 51/8 (149.2) 1 (25.4) 11/16 (27.0) 11/16 (27.0) 1/8 (3.2) 3/4 (19.1) 11/4 (31.6) 1/4 (6.4) 9/32 (7.1) 1/2 (12.7) 110 - 2002 71/8 (181.0) 1½ (38.1) 115/32 (37.3) 119/32 (40.5) 3/16 (4.8) 11/8 (28.6) 127/32 (46.8) 7/16 (11.1) 9/32 (7.1) 11/16 (17.5) 2 (50.8) 23/32 (53.2) 211/32 (59.5) 15/16 (23.8) 225 - 4002 85/8 (219.1) 115/16 (49.2) 1/4 (6.4) 15/8 (41.3) 5/8 (15.9) 13/32 (10.3) 103/8 (263.5) 23/8 (60.3) 227/32 (72.2) 450 - 6002½ (63.5) 219/32 (65.9) 1/4 (6.4) 2 (50.8) 3/4 (19.1) 17/32 (13.5) 11/8 (28.6)



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

Specifications

Voltage Rating 170 V dc Ampere Range 1–125 amperage Interrupting Rating 100 kA

Approvals

Construction

Body: glass melamine
Caps: silver-plated brass

Environmental

UL Recognized (File: E71611)

Body: glass melamine
Caps: silver-plated brass

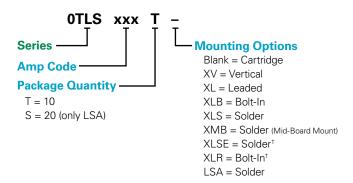
RoHS compliant, lead (Pb) free

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



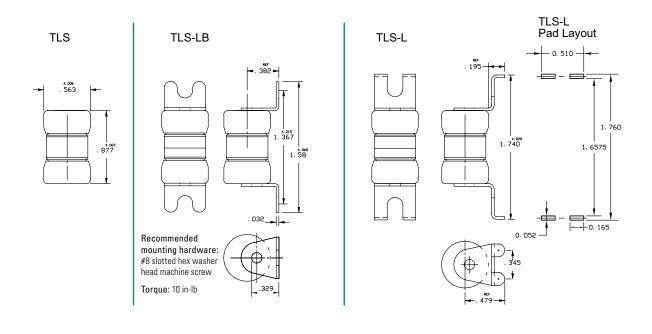
SERIES	AMPERE	MOUNTING	MOUNTING SUFFIX	CATALOG NUMBER	ORDERING NUMBER	FUSE LABEL ID
TLS	6	Cartridge	_	TLS006	0TLS006.T	TLS 6A
TLS	15	Vertical	V	TLS015V	0TLS015.TXV	TLS 15A-V
TLS	35	Leaded	L	TLS035L	0TLS035.TXL	TLS 35A-L
TLS	50	Bolt-In	LB	TLS050LB	OTLS050.TXLB	TLS 50A-LB
TLS	80	Solder	LS	TLS080LS	OTLS080.TXLS	TLS 80A-LS
TLS	100	Solder	MB	TLS100MB	0TLS100.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	0TLS030.SLSA	TLS 30A-LSA

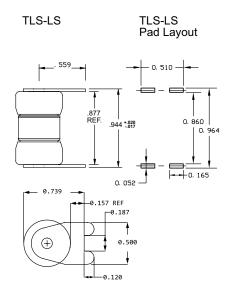
[†]Option is available for 35 to 125 amperage only

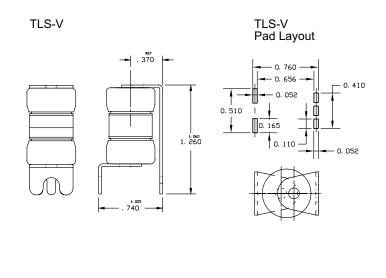


TLS SERIES TELECOM POWER FUSE

Dimensions Inches



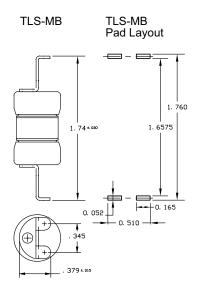


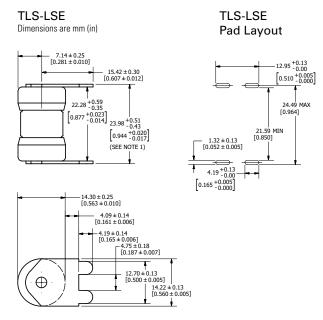




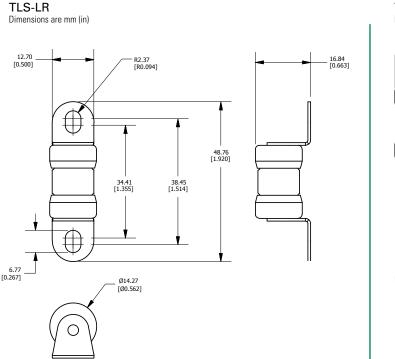
TLS SERIES TELECOM POWER FUSE

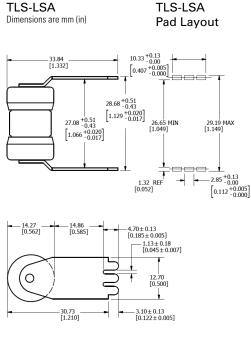
Dimensions Inches





Note 1: Measurement taken at end of terminals







481 SERIES ALARM INDICATING FUSES

Alarm Indicating Fuses





481 Series Alarm Indicating Fuses

Description

481 Series alarm indicating fuses are designed to reduce down time by immediately pinpointing the blown (open) circuit while triggering an LED or audio alarm. This item requires 482 Series mating fuse holder.

All ranges of 481 Series fuses are available as our original design, and the 2-20 amp range is now available as a RoHS compliant option (use the "P" designator when ordering). See the part numbering section of the datasheet for related ordering instructions.

Specifications

Voltage Rating Approvals 125 Vac/dc

UL Recognized (File: E71611) CSA Recognized (File: LR29862)

Ordering Information

AMPERE RATINGS						
18/100	3/8	3/4	1 1/2	3	5	12
1/5	1/2	1	2	3 1/2	7 1/2	15
1/4	65/100	1 1/3	2 1/2	4	10	20

SERIES	VOLTAGE	AMP	CATALOG NUMBER	ORDERING NUMBER
481	125 ac/dc	2	481002L	0481002.VXL

Note: For 481 Dummy fuse, order 481000.

Recommended Fuse Holders

482 Series, see website: **Littelfuse.com/482**Available 1-20 pole with PCB or panel mounting. To order with protective lens add suffix XL.

Web Resources

For additional information, visit: Littelfuse.com/481



LTFD 101 SERIES TELECOM DISCONNECT SWITCH

80 Vdc • 1-125 A





Description

Littelfuse compact LTFD 101 fuse holders for TLS fuses are designed for quick installation into telecom equipment panels. Their modular design fits into spaces originally designed for circuit breakers and can be front panel mounted or rear mounted using bullet connectors. The innovative new pull-out design eliminates the need for tools to replace fuses and includes an alarm signaling circuit to identify the blown fuse.

Features

- Extremely compact
- Quick mounting
- · Replaces circuit breakers
- Includes alarm signaling circuit

Specifications

 $\begin{array}{lll} \textbf{Voltage Rating} & 80 \text{ Vdc} \\ \textbf{Ampere Range} & 1-125 \text{ A} \end{array}$

Approvals UL Recognized (File: E122674)

Recommended Fuses

Ordering Information

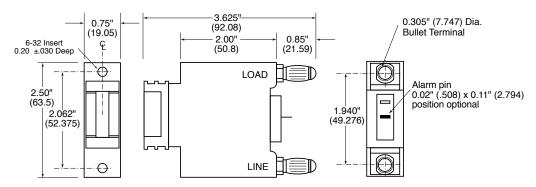
SERIES	AMPERAGE	CATALOG NUMBER	ORDERING NUMBER	TERMINAL TYPE
LTFD	125 A MAX	LTFD101-1	LTFD0101ZX1	BULLET
LTFD	125 A MAX	LTFD101-2	LTFD0101ZX2	SCREW
LTFD	125 A MAX	LTFD101-3	LTFD0101ZX3	STUD
LTFD	70 A MAX	LTFD101-4	LTFD0101ZX4	CLIP

Web Resources

For additional information, visit:

Littelfuse.com/ltfd101

Dimensions Inches (mm)



Dimensions for reference only. For additional options and dimensions, contact the factory.