

# LCAF1-14-X Datasheet

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|                              |  |
|------------------------------|--|
| DiGi Electronics Part Number | LCAF1-14-X-DG  |
| Manufacturer                 | <a href="#">Panduit Corp</a>                                     |
| Manufacturer Product Number  | LCAF1-14-X   |
| Description                  | CONN TERM RECT TONG 1 AWG #1/4                                   |
| Detailed Description         | Terminal Connector Rectangular Rectangular Tongue 1 AWG 1/4 Stud |

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## Purchase and inquiry

Manufacturer Product Number:

LCAF1-14-X

Series:

Pan-Lug™

Terminal Type:

Rectangular Tongue

Terminal Style:

Single Stud Hole

Length - Overall:

1.950" (49.53mm)

Mounting Type:

Free Hanging (In-Line)

Wire Gauge:

1 AWG

Features:

-

Contact Finish:

Electro-Tin

Diameter - Barrel ID:

0.390" (9.91mm)

Diameter - Ring ID:

0.270" (6.86mm)

Manufacturer:

Panduit Corp

Product Status:

Active

Stud/Tab Size:

1/4 Stud

Tab Thickness:

0.120" (3.05mm)

Width - Outer Edges:

0.800" (20.32mm)

Termination:

Crimp, Barrel

Insulation:

Non-Insulated

Color:

Pink

Contact Material:

Copper

Diameter - Barrel OD:

0.590" (14.99mm)

Base Product Number:

LCAF

## Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8536.90.4000

Moisture Sensitivity Level (MSL):

Not Applicable

ECCN:

EAR99

# PANDUIT® ELECTRICAL SOLUTIONS

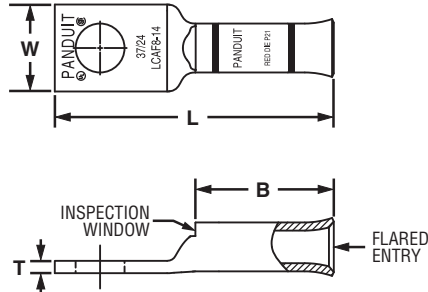


## Flex Conductor, One-Hole, Standard Barrel with Window, Flared NEBS Lug

For Use with Flexible and Extra-Flexible Copper Conductors

### Type LCAF

- Can be used with flex conductor class: K, M, and Diesel Locomotive
- Flared entry prevents bent back strands when inserting fine strand conductor into barrel
- Color-coded barrels marked with Panduit die index numbers for proper crimp die selection
- Inspection window to visually assure full conductor insertion
- Tin-plated to inhibit corrosion
- UL Listed and CSA Certified to 35 KV\*\* and temperature rated to 90°C when crimped with Panduit crimping tools and dies
- **Tested by Telcordia – meets NEBS Level 3**
- American Bureau of Shipping approved



| Part Number  | Flex Conductor Size |                   | Stud Hole Size (In.) | Figure Dimensions (In.) |      |      |      | Panduit Color Code | Panduit Die Index No.‡ | Wire Strip Length (In.) | Std. Pkg. Qty. |
|--------------|---------------------|-------------------|----------------------|-------------------------|------|------|------|--------------------|------------------------|-------------------------|----------------|
|              | Class K and M       | Diesel Locomotive |                      | W                       | B    | T    | L    |                    |                        |                         |                |
| LCAF8-10-L   | —                   | #8 AWG            | #10                  | 0.41                    | 0.76 | 0.08 | 1.45 | Red                | P21                    | 13/16                   | 50             |
| LCAF8-14-L   |                     |                   | 1/4                  | 0.48                    | 0.76 | 0.07 | 1.54 | Red                | P21                    | 13/16                   | 50             |
| LCAF8-56-L   |                     |                   | 5/16                 | 0.56                    | 0.76 | 0.05 | 1.66 | Red                | P21                    | 13/16                   | 50             |
| LCAF8-38-L   |                     |                   | 3/8                  | 0.60                    | 0.76 | 0.05 | 1.76 | Red                | P21                    | 13/16                   | 50             |
| LCAF6-10-L   | #6 AWG              | #6 AWG            | #10                  | 0.45                    | 0.81 | 0.09 | 1.52 | Blue               | P24                    | 7/8                     | 50             |
| LCAF6-14-L   |                     |                   | 1/4                  | 0.48                    | 0.81 | 0.08 | 1.61 | Blue               | P24                    | 7/8                     | 50             |
| LCAF6-56-L   |                     |                   | 5/16                 | 0.56                    | 0.81 | 0.07 | 1.73 | Blue               | P24                    | 7/8                     | 50             |
| LCAF6-38-L   |                     |                   | 3/8                  | 0.62                    | 0.81 | 0.06 | 1.83 | Blue               | P24                    | 7/8                     | 50             |
| LCAF4-10-L   | #4 AWG              | #4 AWG            | #10                  | 0.55                    | 0.81 | 0.09 | 1.54 | Gray               | P29                    | 7/8                     | 50             |
| LCAF4-14-L   |                     |                   | 1/4                  | 0.55                    | 0.81 | 0.09 | 1.63 | Gray               | P29                    | 7/8                     | 50             |
| LCAF4-56-L   |                     |                   | 5/16                 | 0.55                    | 0.81 | 0.09 | 1.75 | Gray               | P29                    | 7/8                     | 50             |
| LCAF4-38-L   |                     |                   | 3/8                  | 0.62                    | 0.81 | 0.07 | 1.85 | Gray               | P29                    | 7/8                     | 50             |
| LCAF2-14-E   | #2 AWG              | #2 AWG            | 1/4                  | 0.70                    | 0.88 | 0.11 | 1.79 | Brown              | P33                    | 15/16                   | 20             |
| LCAF2-56-E   |                     |                   | 5/16                 | 0.70                    | 0.88 | 0.11 | 1.92 | Brown              | P33                    | 15/16                   | 20             |
| LCAF2-38-E   |                     |                   | 3/8                  | 0.70                    | 0.88 | 0.11 | 1.99 | Brown              | P33                    | 15/16                   | 20             |
| LCAF2-12-E   |                     |                   | 1/2                  | 0.79                    | 0.88 | 0.09 | 2.23 | Brown              | P33                    | 15/16                   | 20             |
| LCAF1-14-X   | #1 AWG              | #1 AWG            | 1/4                  | 0.76                    | 0.94 | 0.12 | 1.95 | Pink               | P42                    | 1                       | 10             |
| LCAF1-56-X   |                     |                   | 5/16                 | 0.76                    | 0.94 | 0.12 | 2.00 | Pink               | P42                    | 1                       | 10             |
| LCAF1-38-X   |                     |                   | 3/8                  | 0.76                    | 0.94 | 0.12 | 2.08 | Pink               | P42                    | 1                       | 10             |
| LCAF1-12-X   |                     |                   | 1/2                  | 0.80                    | 0.94 | 0.12 | 2.31 | Pink               | P42                    | 1                       | 10             |
| LCAF1/0-14-X | 1/0 AWG             | 1/0 AWG           | 1/4                  | 0.85                    | 1.35 | 0.13 | 2.46 | Black              | P45                    | 1 7/16                  | 10             |
| LCAF1/0-56-X |                     |                   | 5/16                 | 0.85                    | 1.35 | 0.13 | 2.46 | Black              | P45                    | 1 7/16                  | 10             |
| LCAF1/0-38-X |                     |                   | 3/8                  | 0.85                    | 1.35 | 0.13 | 2.52 | Black              | P45                    | 1 7/16                  | 10             |
| LCAF1/0-12-X |                     |                   | 1/2                  | 0.85                    | 1.35 | 0.13 | 2.77 | Black              | P45                    | 1 7/16                  | 10             |

‡See pages D3.74, D3.75 for tool and die information.

\*\*Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.

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B2. Cable Accessories

B3. Stainless Steel Ties

C1. Wiring Duct

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C4. Cable Management

D1. Terminals

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E1. Labeling Systems

E2. Labels

E3. Pre-Printed & Write-On Markers

E4. Permanent Identification

E5. Lockout/Tagout & Safety Solutions

F. Index

# PANDUIT® ELECTRICAL SOLUTIONS

A. System Overview



**Flex Conductor, One-Hole, Standard Barrel with Window, Flared NEBS Lug (continued)**

B1. Cable Ties

B2. Cable Accessories

B3. Stainless Steel Ties

C1. Wiring Duct

C2. Surface Raceway

C3. Abrasion Protection

C4. Cable Management

D1. Terminals

D2. Power Connectors

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E1. Labeling Systems

E2. Labels

E3. Pre-Printed & Write-On Markers

E4. Permanent Identification

E5. Lockout/Tagout & Safety Solutions

F. Index

| Part Number         | Flex Conductor Size |                   | Stud Hole Size (In.) | Figure Dimensions (In.) |      |      |      | Panduit Color Code | Panduit Die Index No.‡ | Wire Strip Length (In.) | Std. Pkg. Qty. |        |   |
|---------------------|---------------------|-------------------|----------------------|-------------------------|------|------|------|--------------------|------------------------|-------------------------|----------------|--------|---|
|                     | Class K and M       | Diesel Locomotive |                      | W                       | B    | T    | L    |                    |                        |                         |                |        |   |
| LCAF2/0-14-X        | 2/0 AWG             | 2/0 AWG           | 1/4                  | 0.96                    | 1.35 | 0.13 | 2.49 | Orange             | P50                    | 1 7/16                  | 10             |        |   |
| LCAF2/0-56-X        |                     |                   | 5/16                 | 0.96                    | 1.35 | 0.13 | 2.49 | Orange             | P50                    | 1 7/16                  | 10             |        |   |
| <b>LCAF2/0-38-X</b> |                     |                   | 3/8                  | 0.96                    | 1.35 | 0.13 | 2.55 | Orange             | P50                    | 1 7/16                  | 10             |        |   |
| LCAF2/0-12-X        |                     |                   | 1/2                  | 0.96                    | 1.35 | 0.13 | 2.80 | Orange             | P50                    | 1 7/16                  | 10             |        |   |
| LCAF3/0-14-X        | 3/0 AWG             | 3/0 AWG           | 1/4                  | 1.06                    | 1.35 | 0.14 | 2.52 | Purple             | P54                    | 1 7/16                  | 10             |        |   |
| LCAF3/0-56-X        |                     |                   | 5/16                 | 1.06                    | 1.35 | 0.14 | 2.53 | Purple             | P54                    | 1 7/16                  | 10             |        |   |
| LCAF3/0-38-X        |                     |                   | 3/8                  | 1.06                    | 1.35 | 0.14 | 2.60 | Purple             | P54                    | 1 7/16                  | 10             |        |   |
| LCAF3/0-12-X        |                     |                   | 1/2                  | 1.06                    | 1.35 | 0.14 | 2.83 | Purple             | P54                    | 1 7/16                  | 10             |        |   |
| LCAF4/0-14-X        | 4/0 AWG             | 4/0 AWG           | 1/4                  | 1.17                    | 1.35 | 0.14 | 2.56 | Yellow             | P62                    | 1 7/16                  | 10             |        |   |
| LCAF4/0-56-X        |                     |                   | 5/16                 | 1.17                    | 1.35 | 0.14 | 2.58 | Yellow             | P62                    | 1 7/16                  | 10             |        |   |
| LCAF4/0-38-X        |                     |                   | 3/8                  | 1.17                    | 1.35 | 0.14 | 2.65 | Yellow             | P62                    | 1 7/16                  | 10             |        |   |
| <b>LCAF4/0-12-X</b> |                     |                   | 1/2                  | 1.17                    | 1.35 | 0.14 | 2.88 | Yellow             | P62                    | 1 7/16                  | 10             |        |   |
| LCAF250-38-X        | 250 kcmil           | 262.6 kcmil       | 3/8                  | 1.28                    | 1.65 | 0.17 | 3.19 | White              | P66                    | 1 3/4                   | 10             |        |   |
| LCAF250-12-X        |                     |                   | 1/2                  | 1.28                    | 1.65 | 0.17 | 3.30 | White              | P66                    | 1 3/4                   | 10             |        |   |
| LCAF250-58-X        |                     |                   | 5/8                  | 1.28                    | 1.65 | 0.17 | 3.51 | White              | P66                    | 1 3/4                   | 10             |        |   |
| LCAF250-78-X        |                     |                   | 7/8                  | 1.28                    | 1.65 | 0.17 | 3.95 | White              | P66                    | 1 3/4                   | 10             |        |   |
| LCAF300-38-6        | 300 kcmil           | 313.1 kcmil       | 3/8                  | 1.39                    | 1.65 | 0.18 | 3.37 | Red                | P71                    | 1 3/4                   | 6              |        |   |
| LCAF300-12-6        |                     |                   | 1/2                  | 1.39                    | 1.65 | 0.18 | 3.37 | Red                | P71                    | 1 3/4                   | 6              |        |   |
| LCAF300-58-6        |                     |                   | 5/8                  | 1.39                    | 1.65 | 0.18 | 3.58 | Red                | P71                    | 1 3/4                   | 6              |        |   |
| LCAF300-78-6        |                     |                   | 7/8                  | 1.39                    | 1.65 | 0.18 | 3.97 | Red                | P71                    | 1 3/4                   | 6              |        |   |
| LCAF350-38-6        | 350 kcmil           | 373.7 kcmil       | 3/8                  | 1.54                    | 1.85 | 0.22 | 3.49 | Blue               | P76                    | 1 15/16                 | 6              |        |   |
| <b>LCAF350-12-6</b> |                     |                   | 1/2                  | 1.54                    | 1.85 | 0.22 | 3.65 | Blue               | P76                    | 1 15/16                 | 6              |        |   |
| LCAF350-58-6        |                     |                   | 5/8                  | 1.54                    | 1.85 | 0.22 | 3.86 | Blue               | P76                    | 1 15/16                 | 6              |        |   |
| LCAF350-34-6        |                     |                   | 3/4                  | 1.54                    | 1.85 | 0.22 | 4.00 | Blue               | P76                    | 1 15/16                 | 6              |        |   |
| LCAF350-78-6        | 400 kcmil           | 444.4 kcmil       | 7/8                  | 1.54                    | 1.85 | 0.22 | 4.25 | Blue               | P76                    | 1 15/16                 | 6              |        |   |
| LCAF350-1-6         |                     |                   | 1                    | 1.54                    | 1.85 | 0.22 | 4.37 | Blue               | P76                    | 1 15/16                 | 6              |        |   |
| LCAF400-12-6        |                     |                   | 1/2                  | 1.70                    | 2.20 | 0.26 | 4.65 | Brown              | P87                    | 2 1/4                   | 6              |        |   |
| LCAF400-58-6        |                     |                   | 5/8                  | 1.70                    | 2.20 | 0.26 | 4.65 | Brown              | P87                    | 2 1/4                   | 6              |        |   |
| LCAF400-78-6        | 500 kcmil           | 535.3 kcmil       | 7/8                  | 1.70                    | 2.20 | 0.26 | 4.65 | Brown              | P87                    | 2 1/4                   | 6              |        |   |
| LCAF500-12-6        |                     |                   | 1/2                  | 1.89                    | 2.28 | 0.26 | 4.99 | Pink               | P99                    | 2 5/16                  | 6              |        |   |
| LCAF500-58-6        |                     |                   | 5/8                  | 1.89                    | 2.28 | 0.26 | 5.18 | Pink               | P99                    | 2 5/16                  | 6              |        |   |
| LCAF600-12-6        |                     |                   | —                    | 646.4 kcmil             | 1/2  | 1.95 | 2.33 | 0.30               | 5.07                   | Black                   | P106           | 2 3/8  | 6 |
| LCAF600-58-6        | 5/8                 | 1.95              |                      |                         | 2.33 | 0.30 | 5.26 | Black              | P106                   | 2 3/8                   | 6              |        |   |
| LCAF750-12-3        | —                   | 777.7 kcmil       |                      |                         | 1/2  | 2.17 | 2.38 | 0.32               | 5.21                   | Orange                  | P107           | 2 7/16 | 3 |
| LCAF750-58-3        |                     |                   |                      |                         | 5/8  | 2.17 | 2.38 | 0.32               | 5.40                   | Orange                  | P107           | 2 7/16 | 3 |

‡See pages D3.74, D3.75 for tool and die information.

\*\*Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.

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