

A. System Overview



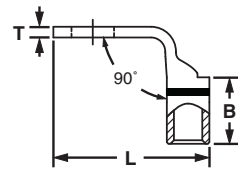
## Flex Conductor, One-Hole, Standard Barrel with Window Lug, 90° Angle

B1. Cable Ties

**For Use with Flexible, Extra-Flexible, and Code Stranded Copper Conductors**

### Type LCAX-F

- Can be used with code conductor and flex conductor class: G, H, I, K, M and Diesel Locomotive
- Generously beveled wire entry prevents bent back strands when inserting conductor into barrel
- Color-coded barrels marked with Panduit and specified competitor 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 and specified competitor crimping tools and dies
- American Bureau of Shipping approved



C1. Wiring Duct

C2. Surface Raceway

C3. Abrasion Protection

C4. Cable Management

| Part Number   | Flex Conductor Size |                   | Code Conductor Size | Stud Hole Size (In.) | Figure Dimensions (In.) |      |      |      | Panduit Color Code | Panduit Die Index No.‡ | Burndy Die Index No.‡ | T&B Die Index No.‡ | Wire Strip Length (In.) | Std. Pkg. Qty. |
|---------------|---------------------|-------------------|---------------------|----------------------|-------------------------|------|------|------|--------------------|------------------------|-----------------------|--------------------|-------------------------|----------------|
|               | Class G, H, I, K, M | Diesel Locomotive |                     |                      | W                       | B    | T    | L    |                    |                        |                       |                    |                         |                |
| LCAX8-10F-L   | #8 AWG              | #8 AWG            | #8 AWG              | #10                  | 0.41                    | 0.42 | 0.08 | 0.90 | Red                | P21                    | 49                    | 21                 | 1/2                     | 50             |
| LCAX8-14F-L   |                     |                   |                     | 1/4                  | 0.48                    | 0.42 | 0.07 | 0.99 | Red                | P21                    | 49                    | 21                 | 1/2                     | 50             |
| LCAX8-56F-L   |                     |                   |                     | 5/16                 | 0.56                    | 0.42 | 0.05 | 1.11 | Red                | P21                    | 49                    | 21                 | 1/2                     | 50             |
| LCAX8-38F-L   |                     |                   |                     | 3/8                  | 0.60                    | 0.42 | 0.05 | 1.21 | Red                | P21                    | 49                    | 21                 | 1/2                     | 50             |
| LCAX6-10F-L   | #6 AWG              | #6 AWG            | #6 AWG              | #10                  | 0.45                    | 0.48 | 0.09 | 0.99 | Blue               | P24                    | 7                     | 24                 | 9/16                    | 50             |
| LCAX6-14F-L   |                     |                   |                     | 1/4                  | 0.48                    | 0.48 | 0.08 | 1.03 | Blue               | P24                    | 7                     | 24                 | 9/16                    | 50             |
| LCAX6-56F-L   |                     |                   |                     | 5/16                 | 0.56                    | 0.48 | 0.07 | 1.15 | Blue               | P24                    | 7                     | 24                 | 9/16                    | 50             |
| LCAX6-38F-L   |                     |                   |                     | 3/8                  | 0.62                    | 0.48 | 0.06 | 1.25 | Blue               | P24                    | 7                     | 24                 | 9/16                    | 50             |
| LCAX4-10F-L   | #4 AWG              | #5, #4, #3 AWG    | #4 AWG              | #10                  | 0.55                    | 0.53 | 0.09 | 1.03 | Gray               | P29                    | 8                     | 29                 | 5/8                     | 50             |
| LCAX4-14F-L   |                     |                   |                     | 1/4                  | 0.55                    | 0.53 | 0.09 | 1.12 | Gray               | P29                    | 8                     | 29                 | 5/8                     | 50             |
| LCAX4-56F-L   |                     |                   |                     | 5/16                 | 0.55                    | 0.53 | 0.09 | 1.24 | Gray               | P29                    | 8                     | 29                 | 5/8                     | 50             |
| LCAX4-38F-L   |                     |                   |                     | 3/8                  | 0.62                    | 0.53 | 0.07 | 1.34 | Gray               | P29                    | 8                     | 29                 | 5/8                     | 50             |
| LCAX2-10F-E*  | #2 AWG              | #2 AWG            | #2 AWG              | #10                  | 0.70                    | 0.59 | 0.11 | 1.21 | Brown              | P33                    | 10                    | 33                 | 11/16                   | 20             |
| LCAX2-14F-E*  |                     |                   |                     | 1/4                  | 0.70                    | 0.59 | 0.11 | 1.31 | Brown              | P33                    | 10                    | 33                 | 11/16                   | 20             |
| LCAX2-56F-E*  |                     |                   |                     | 5/16                 | 0.70                    | 0.59 | 0.11 | 1.44 | Brown              | P33                    | 10                    | 33                 | 11/16                   | 20             |
| LCAX2-38F-E*  |                     |                   |                     | 3/8                  | 0.70                    | 0.59 | 0.11 | 1.51 | Brown              | P33                    | 10                    | 33                 | 11/16                   | 20             |
| LCAX2-12F-E*  | #1 AWG              | #1 AWG            | #1 AWG              | 1/2                  | 0.75                    | 0.59 | 0.09 | 1.75 | Brown              | P33                    | 10                    | 33                 | 11/16                   | 20             |
| LCAX1-10F-X   |                     |                   |                     | #10                  | 0.76                    | 0.66 | 0.12 | 1.28 | Green              | P37                    | 11                    | 37                 | 3/4                     | 10             |
| LCAX1-14F-X   |                     |                   |                     | 1/4                  | 0.76                    | 0.66 | 0.12 | 1.45 | Green              | P37                    | 11                    | 37                 | 3/4                     | 10             |
| LCAX1-56F-X   |                     |                   |                     | 5/16                 | 0.76                    | 0.66 | 0.12 | 1.51 | Green              | P37                    | 11                    | 37                 | 3/4                     | 10             |
| LCAX1-38F-X   | 1/0 AWG             | 1/0 AWG           | 1/0 AWG             | 3/8                  | 0.76                    | 0.66 | 0.12 | 1.58 | Green              | P37                    | 11                    | 37                 | 3/4                     | 10             |
| LCAX1-12F-X   |                     |                   |                     | 1/2                  | 0.80                    | 0.66 | 0.12 | 1.82 | Green              | P37                    | 11                    | 37                 | 3/4                     | 10             |
| LCAX1/0-14F-X | 1/0 AWG             | 1/0 AWG           | 1/0 AWG             | 1/4                  | 0.85                    | 0.72 | 0.13 | 1.59 | Pink               | P42                    | 12                    | 42                 | 3/4                     | 10             |
| LCAX1/0-56F-X |                     |                   |                     | 5/16                 | 0.85                    | 0.72 | 0.13 | 1.59 | Pink               | P42                    | 12                    | 42                 | 3/4                     | 10             |
| LCAX1/0-38F-X |                     |                   |                     | 3/8                  | 0.85                    | 0.72 | 0.13 | 1.66 | Pink               | P42                    | 12                    | 42                 | 3/4                     | 10             |
| LCAX1/0-12F-X |                     |                   |                     | 1/2                  | 0.85                    | 0.72 | 0.13 | 1.91 | Pink               | P42                    | 12                    | 42                 | 3/4                     | 10             |

‡See pages D3.70 – D3.73 for tool and die information.

\*Not UL Listed or CSA Certified with Class K flex conductor when crimped with Burndy tools.

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

E4. Permanent Identification

E5. Lockout/Tagout & Safety Solutions

F. Index



## Flex Conductor, One-Hole, Standard Barrel with Window Lug, 90° Angle (continued)

| Part Number   | Flex Conductor Size |                   | Code Conductor Size | Stud Hole Size (In.) | Figure Dimensions (In.) |        |      |      | Panduit Color Code | Panduit Die Index No.‡ | Burndy Die Index No.‡ | T&B Die Index No.‡ | Wire Strip Length (In.) | Std. Pkg. Qty. |
|---------------|---------------------|-------------------|---------------------|----------------------|-------------------------|--------|------|------|--------------------|------------------------|-----------------------|--------------------|-------------------------|----------------|
|               | Class G, H, I, K, M | Diesel Locomotive |                     |                      | W                       | B      | T    | L    |                    |                        |                       |                    |                         |                |
| LCAX2/0-10F-X | 2/0 AWG             | 2/0 AWG           | 2/0 AWG             | #10                  | 0.96                    | 0.83   | 0.13 | 1.42 | Black              | P45                    | 13                    | 45                 | 7/8                     | 10             |
| LCAX2/0-14F-X |                     |                   |                     | 1/4                  | 0.96                    | 0.83   | 0.13 | 1.67 | Black              | P45                    | 13                    | 45                 | 7/8                     | 10             |
| LCAX2/0-56F-X |                     |                   |                     | 5/16                 | 0.96                    | 0.83   | 0.13 | 1.67 | Black              | P45                    | 13                    | 45                 | 7/8                     | 10             |
| LCAX2/0-38F-X |                     |                   |                     | 3/8                  | 0.96                    | 0.83   | 0.13 | 1.73 | Black              | P45                    | 13                    | 45                 | 7/8                     | 10             |
| LCAX2/0-12F-X |                     |                   |                     | 1/2                  | 0.96                    | 0.83   | 0.13 | 1.98 | Black              | P45                    | 13                    | 45                 | 7/8                     | 10             |
| LCAX2/0-58F-X |                     |                   |                     | 5/8                  | 0.96                    | 0.83   | 0.13 | 2.27 | Black              | P45                    | 13                    | 45                 | 7/8                     | 10             |
| LCAX3/0-10F-X | 3/0 AWG             | 3/0 AWG           | 3/0 AWG             | #10                  | 1.06                    | 0.91   | 0.14 | 1.51 | Orange             | P50                    | 14                    | 50                 | 1                       | 10             |
| LCAX3/0-14F-X |                     |                   |                     | 1/4                  | 1.06                    | 0.91   | 0.14 | 1.75 | Orange             | P50                    | 14                    | 50                 | 1                       | 10             |
| LCAX3/0-56F-X |                     |                   |                     | 5/16                 | 1.06                    | 0.91   | 0.14 | 1.77 | Orange             | P50                    | 14                    | 50                 | 1                       | 10             |
| LCAX3/0-38F-X |                     |                   |                     | 3/8                  | 1.06                    | 0.91   | 0.14 | 1.84 | Orange             | P50                    | 14                    | 50                 | 1                       | 10             |
| LCAX3/0-12F-X | 1/2                 | 1.06              | 0.91                | 0.14                 | 2.07                    | Orange | P50  | 14   | 50                 | 1                      | 10                    |                    |                         |                |
| LCAX4/0-14F-X | 4/0 AWG             | 4/0 AWG           | 4/0 AWG             | 1/4                  | 1.19                    | 1.03   | 0.16 | 1.84 | Purple             | P54                    | 15                    | 54                 | 1 1/16                  | 10             |
| LCAX4/0-56F-X |                     |                   |                     | 5/16                 | 1.19                    | 1.03   | 0.16 | 2.07 | Purple             | P54                    | 15                    | 54                 | 1 1/16                  | 10             |
| LCAX4/0-38F-X |                     |                   |                     | 3/8                  | 1.19                    | 1.03   | 0.16 | 2.07 | Purple             | P54                    | 15                    | 54                 | 1 1/16                  | 10             |
| LCAX4/0-12F-X |                     |                   |                     | 1/2                  | 1.19                    | 1.03   | 0.16 | 2.18 | Purple             | P54                    | 15                    | 54                 | 1 1/16                  | 10             |
| LCAX4/0-58F-X |                     |                   |                     | 5/8                  | 1.19                    | 1.03   | 0.16 | 2.39 | Purple             | P54                    | 15                    | 54                 | 1 1/16                  | 10             |
| LCAX4/0-34F-X |                     |                   |                     | 3/4                  | 1.19                    | 1.03   | 0.16 | 2.58 | Purple             | P54                    | 15                    | 54                 | 1 1/16                  | 10             |
| LCAX250-14F-X | 250 kcmil           | 262.6 kcmil       | —                   | 1/4                  | 1.28                    | 1.03   | 0.17 | 1.90 | Yellow             | P62                    | 16                    | 62                 | 1 1/16                  | 10             |
| LCAX250-56F-X |                     |                   |                     | 5/16                 | 1.28                    | 1.03   | 0.17 | 2.13 | Yellow             | P62                    | 16                    | 62                 | 1 1/16                  | 10             |
| LCAX250-38F-X |                     |                   |                     | 3/8                  | 1.28                    | 1.03   | 0.17 | 2.13 | Yellow             | P62                    | 16                    | 62                 | 1 1/16                  | 10             |
| LCAX250-12F-X |                     |                   |                     | 1/2                  | 1.28                    | 1.03   | 0.17 | 2.24 | Yellow             | P62                    | 16                    | 62                 | 1 1/16                  | 10             |
| LCAX250-58F-X |                     |                   |                     | 5/8                  | 1.28                    | 1.03   | 0.17 | 2.45 | Yellow             | P62                    | 16                    | 62                 | 1 1/16                  | 10             |
| LCAX250-34F-X |                     |                   |                     | 3/4                  | 1.28                    | 1.03   | 0.17 | 2.64 | Yellow             | P62                    | 16                    | 62                 | 1 1/16                  | 10             |
| LCAX300-38F-6 | 300 kcmil           | 313.1 kcmil       | —                   | 3/8                  | 1.39                    | 1.19   | 0.18 | 2.37 | Red                | P71                    | 18                    | 71H                | 1 1/4                   | 6              |
| LCAX300-12F-6 |                     |                   |                     | 1/2                  | 1.39                    | 1.19   | 0.18 | 2.37 | Red                | P71                    | 18                    | 71H                | 1 1/4                   | 6              |
| LCAX300-58F-6 |                     |                   |                     | 5/8                  | 1.39                    | 1.19   | 0.18 | 2.58 | Red                | P71                    | 18                    | 71H                | 1 1/4                   | 6              |
| LCAX350-56F-6 | 350 kcmil           | 373.7 kcmil       | —                   | 5/16                 | 1.54                    | 1.29   | 0.22 | 2.32 | Blue               | P76                    | 19                    | 76H                | 1 3/8                   | 6              |
| LCAX350-38F-6 |                     |                   |                     | 3/8                  | 1.54                    | 1.29   | 0.22 | 2.32 | Blue               | P76                    | 19                    | 76H                | 1 3/8                   | 6              |
| LCAX350-12F-6 |                     |                   |                     | 1/2                  | 1.54                    | 1.29   | 0.22 | 2.48 | Blue               | P76                    | 19                    | 76H                | 1 3/8                   | 6              |
| LCAX350-58F-6 |                     |                   |                     | 5/8                  | 1.54                    | 1.29   | 0.22 | 2.69 | Blue               | P76                    | 19                    | 76H                | 1 3/8                   | 6              |
| LCAX450-12F-6 | 450 kcmil           | 444.4 kcmil       | —                   | 1/2                  | 1.70                    | 1.40   | 0.26 | 2.95 | Brown              | P87                    | 20                    | 87H                | 1 7/16                  | 6              |
| LCAX450-58F-6 |                     |                   |                     | 5/8                  | 1.70                    | 1.40   | 0.26 | 3.08 | Brown              | P87                    | 20                    | 87H                | 1 7/16                  | 6              |
| LCAX500-56F-6 | 500 kcmil           | 535.3 kcmil       | —                   | 5/16                 | 1.89                    | 1.48   | 0.26 | 2.44 | Pink               | P99                    | L99                   | 99H                | 1 9/16                  | 6              |
| LCAX500-38F-6 |                     |                   |                     | 3/8                  | 1.89                    | 1.48   | 0.26 | 2.69 | Pink               | P99                    | L99                   | 99H                | 1 9/16                  | 6              |
| LCAX500-12F-6 |                     |                   |                     | 1/2                  | 1.89                    | 1.48   | 0.26 | 2.81 | Pink               | P99                    | L99                   | 99H                | 1 9/16                  | 6              |
| LCAX500-58F-6 |                     |                   |                     | 5/8                  | 1.89                    | 1.48   | 0.26 | 3.37 | Pink               | P99                    | L99                   | 99H                | 1 9/16                  | 6              |
| LCAX650-56F-6 | —                   | 646.4 kcmil       | —                   | 5/16                 | 1.95                    | 1.45   | 0.30 | 2.50 | Black              | P106                   | 24                    | 106H               | 1 1/2                   | 6              |
| LCAX650-38F-6 |                     |                   |                     | 3/8                  | 1.95                    | 1.45   | 0.30 | 2.50 | Black              | P106                   | 24                    | 106H               | 1 1/2                   | 6              |
| LCAX650-12F-6 |                     |                   |                     | 1/2                  | 1.95                    | 1.45   | 0.30 | 2.86 | Black              | P106                   | 24                    | 106H               | 1 1/2                   | 6              |
| LCAX650-58F-6 |                     |                   |                     | 5/8                  | 1.95                    | 1.45   | 0.30 | 3.42 | Black              | P106                   | 24                    | 106H               | 1 1/2                   | 6              |
| LCAX750-12F-3 | —                   | 777.7 kcmil       | —                   | 1/2                  | 2.17                    | 1.66   | 0.32 | 2.86 | Yellow             | P115                   | L115                  | 115H               | 1 3/4                   | 3              |
| LCAX750-58F-3 |                     |                   |                     | 5/8                  | 2.17                    | 1.66   | 0.32 | 3.67 | Yellow             | P115                   | L115                  | 115H               | 1 3/4                   | 3              |

‡See pages D3.70 – D3.73 for tool and die information.

\*Not UL Listed or CSA Certified with Class K flex conductor when crimped with Burndy tools.

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

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