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A. System Overview



Flex Conductor, One-Hole, Standard Barrel with Window Lug

B1. Cable Ties

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

Type LCAX

- 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

B2. Cable Accessories

B3. Stainless Steel Ties

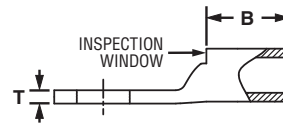
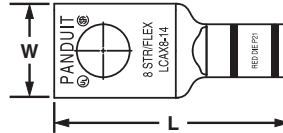
C1. Wiring Duct



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 | | | | | | |
| LCAX8-10-L | #8 AWG | #8 AWG | #8 AWG | #10 | 0.41 | 0.42 | 0.08 | 1.11 | Red | P21 | 49 | 21 | 1/2 | 50 |
| LCAX8-14-L | | | | 1/4 | 0.48 | 0.42 | 0.07 | 1.20 | Red | P21 | 49 | 21 | 1/2 | 50 |
| LCAX8-56-L | | | | 5/16 | 0.56 | 0.42 | 0.05 | 1.32 | Red | P21 | 49 | 21 | 1/2 | 50 |
| LCAX8-38-L | | | | 3/8 | 0.60 | 0.42 | 0.05 | 1.42 | Red | P21 | 49 | 21 | 1/2 | 50 |
| LCAX6-10-L | #6 AWG | #6 AWG | #6 AWG | #10 | 0.45 | 0.48 | 0.09 | 1.19 | Blue | P24 | 7 | 24 | 9/16 | 50 |
| LCAX6-14-L | | | | 1/4 | 0.48 | 0.48 | 0.08 | 1.28 | Blue | P24 | 7 | 24 | 9/16 | 50 |
| LCAX6-56-L | | | | 5/16 | 0.56 | 0.48 | 0.07 | 1.40 | Blue | P24 | 7 | 24 | 9/16 | 50 |
| LCAX6-38-L | | | | 3/8 | 0.62 | 0.48 | 0.06 | 1.50 | Blue | P24 | 7 | 24 | 9/16 | 50 |
| LCAX4-10-L | #4 AWG | #5, #4, #3 AWG | #4 AWG | #10 | 0.55 | 0.53 | 0.09 | 1.26 | Gray | P29 | 8 | 29 | 5/8 | 50 |
| LCAX4-14-L | | | | 1/4 | 0.55 | 0.53 | 0.09 | 1.35 | Gray | P29 | 8 | 29 | 5/8 | 50 |
| LCAX4-56-L | | | | 5/16 | 0.55 | 0.53 | 0.09 | 1.47 | Gray | P29 | 8 | 29 | 5/8 | 50 |
| LCAX4-38-L | | | | 3/8 | 0.62 | 0.53 | 0.07 | 1.57 | Gray | P29 | 8 | 29 | 5/8 | 50 |
| LCAX2-10-E* | #2 AWG | #2 AWG | #2 AWG | #10 | 0.70 | 0.59 | 0.11 | 1.40 | Brown | P33 | 10 | 33 | 11/16 | 20 |
| LCAX2-14-E* | | | | 1/4 | 0.70 | 0.59 | 0.11 | 1.50 | Brown | P33 | 10 | 33 | 11/16 | 20 |
| LCAX2-56-E* | | | | 5/16 | 0.70 | 0.59 | 0.11 | 1.63 | Brown | P33 | 10 | 33 | 11/16 | 20 |
| LCAX2-38-E* | | | | 3/8 | 0.70 | 0.59 | 0.11 | 1.70 | Brown | P33 | 10 | 33 | 11/16 | 20 |
| LCAX2-12-E* | #1 AWG | #1 AWG | #1 AWG | 1/2 | 0.75 | 0.59 | 0.09 | 1.94 | Brown | P33 | 10 | 33 | 11/16 | 20 |
| LCAX1-10-X | | | | #10 | 0.76 | 0.66 | 0.12 | 1.50 | Green | P37 | 11 | 37 | 3/4 | 10 |
| LCAX1-14-X | | | | 1/4 | 0.76 | 0.66 | 0.12 | 1.67 | Green | P37 | 11 | 37 | 3/4 | 10 |
| LCAX1-56-X | | | | 5/16 | 0.76 | 0.66 | 0.12 | 1.72 | Green | P37 | 11 | 37 | 3/4 | 10 |
| LCAX1-38-X | 3/8 | 0.76 | 0.66 | 0.12 | 1.80 | Green | P37 | 11 | 37 | 3/4 | 10 | | | |
| LCAX1-12-X | 1/2 | 0.80 | 0.66 | 0.12 | 2.03 | Green | P37 | 11 | 37 | 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 (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 | | | | | | |
| LCAX1/0-14-X | 1/0 AWG | 1/0 AWG | 1/0 AWG | 1/4 | 0.85 | 0.72 | 0.13 | 1.82 | Pink | P42 | 12 | 42 | 3/4 | 10 |
| LCAX1/0-56-X | | | | 5/16 | 0.85 | 0.72 | 0.13 | 1.82 | Pink | P42 | 12 | 42 | 3/4 | 10 |
| LCAX1/0-38-X | | | | 3/8 | 0.85 | 0.72 | 0.13 | 1.89 | Pink | P42 | 12 | 42 | 3/4 | 10 |
| LCAX1/0-12-X | | | | 1/2 | 0.85 | 0.72 | 0.13 | 2.14 | Pink | P42 | 12 | 42 | 3/4 | 10 |
| LCAX1/0-58-X | | | | 5/8 | 0.96 | 0.72 | 0.11 | 2.38 | Pink | P42 | 12 | 42 | 3/4 | 10 |
| LCAX2/0-10-X | 2/0 AWG | 2/0 AWG | 2/0 AWG | #10 | 0.96 | 0.83 | 0.13 | 1.72 | Black | P45 | 13 | 45 | 7/8 | 10 |
| LCAX2/0-14-X | | | | 1/4 | 0.96 | 0.83 | 0.13 | 1.97 | Black | P45 | 13 | 45 | 7/8 | 10 |
| LCAX2/0-56-X | | | | 5/16 | 0.96 | 0.83 | 0.13 | 1.97 | Black | P45 | 13 | 45 | 7/8 | 10 |
| LCAX2/0-38-X | | | | 3/8 | 0.96 | 0.83 | 0.13 | 2.03 | Black | P45 | 13 | 45 | 7/8 | 10 |
| LCAX2/0-12-X | | | | 1/2 | 0.96 | 0.83 | 0.13 | 2.28 | Black | P45 | 13 | 45 | 7/8 | 10 |
| LCAX2/0-58-X | 5/8 | 0.96 | 0.83 | 0.13 | 2.52 | Black | P45 | 13 | 45 | 7/8 | 10 | | | |
| LCAX3/0-10-X | 3/0 AWG | 3/0 AWG | 3/0 AWG | #10 | 1.06 | 0.91 | 0.14 | 1.84 | Orange | P50 | 14 | 50 | 1 | 10 |
| LCAX3/0-14-X | | | | 1/4 | 1.06 | 0.91 | 0.14 | 2.08 | Orange | P50 | 14 | 50 | 1 | 10 |
| LCAX3/0-56-X | | | | 5/16 | 1.06 | 0.91 | 0.14 | 2.10 | Orange | P50 | 14 | 50 | 1 | 10 |
| LCAX3/0-38-X | | | | 3/8 | 1.06 | 0.91 | 0.14 | 2.17 | Orange | P50 | 14 | 50 | 1 | 10 |
| LCAX3/0-12-X | | | | 1/2 | 1.06 | 0.91 | 0.14 | 2.40 | Orange | P50 | 14 | 50 | 1 | 10 |
| LCAX3/0-58-X | 5/8 | 1.06 | 0.91 | 0.14 | 2.64 | Orange | P50 | 14 | 50 | 1 | 10 | | | |
| LCAX4/0-14-X | 4/0 AWG | 4/0 AWG | 4/0 AWG | 1/4 | 1.19 | 1.03 | 0.16 | 2.30 | Purple | P54 | 15 | 54 | 1 1/16 | 10 |
| LCAX4/0-56-X | | | | 5/16 | 1.19 | 1.03 | 0.16 | 2.53 | Purple | P54 | 15 | 54 | 1 1/16 | 10 |
| LCAX4/0-38-X | | | | 3/8 | 1.19 | 1.03 | 0.16 | 2.53 | Purple | P54 | 15 | 54 | 1 1/16 | 10 |
| LCAX4/0-12-X | | | | 1/2 | 1.19 | 1.03 | 0.16 | 2.64 | Purple | P54 | 15 | 54 | 1 1/16 | 10 |
| LCAX4/0-58-X | | | | 5/8 | 1.19 | 1.03 | 0.16 | 2.85 | Purple | P54 | 15 | 54 | 1 1/16 | 10 |
| LCAX4/0-34-X | 3/4 | 1.19 | 1.03 | 0.16 | 3.04 | Purple | P54 | 15 | 54 | 1 1/16 | 10 | | | |
| LCAX250-14-X | 250 kcmil | 262.6 kcmil | — | 1/4 | 1.28 | 1.03 | 0.17 | 2.34 | Yellow | P62 | 16 | 62 | 1 1/16 | 10 |
| LCAX250-56-X | | | | 5/16 | 1.28 | 1.03 | 0.17 | 2.57 | Yellow | P62 | 16 | 62 | 1 1/16 | 10 |
| LCAX250-38-X | | | | 3/8 | 1.28 | 1.03 | 0.17 | 2.57 | Yellow | P62 | 16 | 62 | 1 1/16 | 10 |
| LCAX250-12-X | | | | 1/2 | 1.28 | 1.03 | 0.17 | 2.68 | Yellow | P62 | 16 | 62 | 1 1/16 | 10 |
| LCAX250-58-X | | | | 5/8 | 1.28 | 1.03 | 0.17 | 2.89 | Yellow | P62 | 16 | 62 | 1 1/16 | 10 |
| LCAX250-34-X | 3/4 | 1.28 | 1.03 | 0.17 | 3.08 | Yellow | P62 | 16 | 62 | 1 1/16 | 10 | | | |
| LCAX300-38-6 | 300 kcmil | 313.1 kcmil | — | 3/8 | 1.39 | 1.19 | 0.18 | 2.91 | Red | P71 | 18 | 71H | 1 1/4 | 6 |
| LCAX300-12-6 | | | | 1/2 | 1.39 | 1.19 | 0.18 | 2.91 | Red | P71 | 18 | 71H | 1 1/4 | 6 |
| LCAX300-58-6 | | | | 5/8 | 1.39 | 1.19 | 0.18 | 3.12 | Red | P71 | 18 | 71H | 1 1/4 | 6 |
| LCAX350-56-6 | 350 kcmil | 373.7 kcmil | — | 5/16 | 1.54 | 1.29 | 0.22 | 2.93 | Blue | P76 | 19 | 76H | 1 3/8 | 6 |
| LCAX350-38-6 | | | | 3/8 | 1.54 | 1.29 | 0.22 | 2.93 | Blue | P76 | 19 | 76H | 1 3/8 | 6 |
| LCAX350-12-6 | | | | 1/2 | 1.54 | 1.29 | 0.22 | 3.09 | Blue | P76 | 19 | 76H | 1 3/8 | 6 |
| LCAX350-58-6 | 5/8 | 1.54 | 1.29 | 0.22 | 3.30 | Blue | P76 | 19 | 76H | 1 3/8 | 6 | | | |
| LCAX450-12-6 | 450 kcmil | 444.4 kcmil | — | 1/2 | 1.70 | 1.40 | 0.26 | 3.60 | Brown | P87 | 20 | 87H | 1 7/16 | 6 |
| LCAX450-58-6 | | | | 5/8 | 1.70 | 1.40 | 0.26 | 3.73 | Brown | P87 | 20 | 87H | 1 7/16 | 6 |
| LCAX500-56-6 | 500 kcmil | 535.3 kcmil | — | 5/16 | 1.89 | 1.48 | 0.26 | 3.27 | Pink | P99 | L99 | 99H | 1 9/16 | 6 |
| LCAX500-38-6 | | | | 3/8 | 1.89 | 1.48 | 0.26 | 3.27 | Pink | P99 | L99 | 99H | 1 9/16 | 6 |
| LCAX500-12-6 | | | | 1/2 | 1.89 | 1.48 | 0.26 | 3.64 | Pink | P99 | L99 | 99H | 1 9/16 | 6 |
| LCAX500-58-6 | | | | 5/8 | 1.89 | 1.48 | 0.26 | 4.20 | Pink | P99 | L99 | 99H | 1 9/16 | 6 |
| LCAX650-56-6 | — | 646.4 kcmil | — | 5/16 | 1.95 | 1.45 | 0.30 | 3.27 | Black | P106 | 24 | 106H | 1 1/2 | 6 |
| LCAX650-38-6 | | | | 3/8 | 1.95 | 1.45 | 0.30 | 3.27 | Black | P106 | 24 | 106H | 1 1/2 | 6 |
| LCAX650-12-6 | | | | 1/2 | 1.95 | 1.45 | 0.30 | 3.64 | Black | P106 | 24 | 106H | 1 1/2 | 6 |
| LCAX650-58-6 | | | | 5/8 | 1.95 | 1.45 | 0.30 | 4.20 | Black | P106 | 24 | 106H | 1 1/2 | 6 |
| LCAX750-12-3 | — | 777.7 kcmil | — | 1/2 | 2.17 | 1.66 | 0.32 | 3.94 | Yellow | P115 | L115 | 115H | 1 3/4 | 3 |
| LCAX750-58-3 | | | | 5/8 | 2.17 | 1.66 | 0.32 | 4.59 | Yellow | P115 | L115 | 115H | 1 3/4 | 3 |

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

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

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System
Overview

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B2.
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