

Dual-rated mechanical connectors

Anti-rotational connectors



“No-turn” design keeps connector securely in place – Even under vibration.

Blackburn® anti-rotational connectors are designed with a rib on the bottom that keeps the connectors from turning, so there’s no need to apply excessive torque and there’s no danger of loosening connectors.

The unique “no-turn” rib provides a secure connection that eliminates the conductor pinching that results from connector movement.

The “no-turn” design solves a unique problem for electricians and installers. Larger conductors tend to get damaged in over-torque conditions, and connectors are prone to loosen in applications where there is vibration, such as motor loads.

Inspectors and local standards boards are requiring electricians and installers to make provisions to eliminate these conditions, and Blackburn anti-rotational connectors are the solution.

- Unique bottom rib keeps connector from turning
- Eliminates the need for excessive torque, which can damage large conductors
- Prevents connector loosening, even in heavy-vibration applications

Anti-rotational connectors



| Diagrams | Cat. no. | Wire range (AWG or kcmil) | Bolt hole (in.) | Dimensions (in.) | | | | | | | | | | Fig. |
|----------|-------------|---------------------------|-----------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| | | | | A | B | C | D | E | F | G | H | M | N | |
| | ADR21-AR | 2/0-14 | ¼ | 1.470 | 0.600 | 0.790 | 0.190 | 0.200 | 0.438 | 0.094 | 0.620 | 0.267 | 0.453 | 1 |
| | ADR30-AR | 300-6 | 7/16 | 2.000 | 1.000 | 1.120 | 0.250 | 0.200 | 0.468 | 0.094 | 1.000 | 0.330 | 0.656 | 1 |
| | ADR35-AR | 350-6 | 5/16 | 2.250 | 1.120 | 1.125 | 0.250 | 0.200 | 0.485 | 0.094 | 1.120 | 0.408 | 0.719 | 1 |
| | ADR60-AR | 600-2 | ½ | 3.120 | 1.500 | 1.560 | 0.440 | 0.200 | 0.720 | 0.094 | 1.380 | 0.408 | 0.938 | 1 |
| | ADR35-21-AR | 350-6 | 3/8 | 2.880 | 1.500 | 1.250 | 0.250 | 0.200 | 0.875 | 0.094 | 1.120 | 0.563 | 0.719 | 2 |
| | ADR60-21-AR | 600-2 | ½ | 3.120 | 2.400 | 1.560 | 0.440 | 0.200 | 0.555 | 0.094 | 1.380 | 0.531 | 0.938 | 2 |

Fig. 1

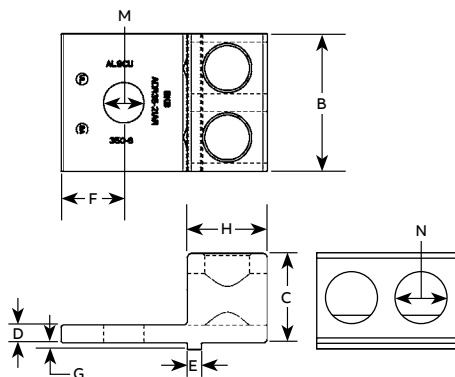


Fig. 2

Dual-rated mechanical connectors

Type ADR – ALCÜL™ single-conductor, one-hole mount and two-hole mount



- All-aluminum-body lugs for use on copper and aluminum conductors
- Easy installation – No special tools required
- Tin plated for low contact resistance

Type ADR – ALCÜL single-conductor, one-hole mount*



| Cat. no. | Conductor range AWG or kcmil (Al or Cu) | | Dimensions (in.) | | | | | | |
|----------------------|--------------------------------------------|--------------|---------------------------------|-------------------------------|---------------------------------|--------------------------------|------|------|---------------------------------|
| | Max. | Min. | L | W | H | D | E | F | G |
| Diagrams | | | | | | | | | |
| | | | | | | | | | |
| Slotted screw | | | | | | | | | |
| ADR6 | #6 Str. | #14 | 1 ³ / ₆₄ | 1/2 | 3 ¹ / ₆₄ | 1 ⁵ / ₆₄ | 1/4 | 5/64 | 4 ³ / ₆₄ |
| ADR2 | #2 Str. | #14 | 1 ⁵ / ₃₂ | 1/2 | 9/16 | 1 ⁹ / ₆₄ | 1/4 | 7/64 | 1 ¹ / ₁₆ |
| ADR11 | 1/0 Str. | #14 | 1 ¹⁵ / ₃₂ | 5/8 | 2 ⁵ / ₃₂ | 7/16 | 1/4 | 3/16 | 2 ⁷ / ₃₂ |
| ADR21 | 2/0 Str. | #14 | 1 ¹⁵ / ₃₂ | 5/8 | 2 ⁵ / ₃₂ | 7/16 | 1/4 | 3/16 | 2 ⁷ / ₃₂ |
| Socket screw | | | | | | | | | |
| ADR25 | 250 | #6 Str. | 2 | 1 | 1 ¹ / ₈ | 1 ⁵ / ₃₂ | 5/16 | 1/4 | 1 |
| ADR30 | 300 | #6 Str. | 2 | 1 | 1 ¹ / ₈ | 1 ⁵ / ₃₂ | 5/16 | 1/4 | 1 |
| ADR35 | 350 | #6 Str. | 2 ¹ / ₄ | 1 ¹ / ₈ | 1 ¹ / ₄ | 1/2 | 3/8 | 1/4 | 1 ¹ / ₈ |
| ADR50 | 500 | #4 Str. | 2 ¹³ / ₁₆ | 1 ¹ / ₂ | 1 ⁹ / ₁₆ | 3/4 | 3/8 | 5/16 | 1 ¹⁹ / ₃₂ |
| ADR60 | 600 | #2 Str. | 3 ³ / ₁₆ | 1 ¹ / ₂ | 1 ⁹ / ₁₆ | 1 ³ / ₁₆ | 3/8 | 7/16 | 1 ¹³ / ₁₆ |
| ADR6004* | 600 | #4 Str. | 2 ¹³ / ₁₆ | 1 ³ / ₈ | 1 ¹³ / ₁₆ | 5/8 | 3/8 | 5/16 | 1 ¹ / ₂ |
| | (2) 250 | (2) 1/0 Str. | | | | | | | |
| ADR80 | 800 | 300 | 3 ³ / ₈ | 1 ³ / ₄ | 1 ¹⁵ / ₁₆ | 5/8 | 5/8 | 1/2 | 1 ³ / ₄ |
| ADR99 | 1000 | 500 | 3 ³ / ₈ | 1 ³ / ₄ | 1 ¹⁵ / ₁₆ | 5/8 | 5/8 | 1/2 | 1 ³ / ₄ |

* Not UL® listed or CSA certified.



- UL 486B tested, AL9CU rated
- Slotted screw on lugs up through 2/0 str.; 5/16" socket screw on sizes 250 through 350 kcmil; 3/8" hex socket on sizes 500 kcmil and above

Type ADR – ALCÜL single-conductor, two-hole mount*



| Cat. no. | Conductor range AWG or kcmil (Al or Cu) | | Dimensions (in.) | | | | | | |
|-----------------|--------------------------------------------|--------|--------------------------------|-------------------------------|-------------------------------|-----|-----|------|--------------------------------|
| | Max. | Min. | L | W | H | D | E | F | G |
| Diagrams | | | | | | | | | |
| | | | | | | | | | |
| ADR35-12# | 350 | 6 Str. | 4 ¹ / ₄ | 1 ¹ / ₄ | 1 ³ / ₈ | 5/8 | 1/2 | 5/16 | 3 |
| ADR60-12D | 600 | 2 Str. | 5 ⁵ / ₁₆ | 1 ¹ / ₂ | 1 ¹ / ₂ | 5/8 | 1/2 | 3/8 | 3 ¹ / ₁₆ |
| ADR80-12D | 800 | 300 | 6 ³ / ₁₆ | 1 ³ / ₄ | 1 ⁷ / ₈ | 5/8 | 1/2 | 9/16 | 3 ⁷ / ₁₆ |
| ADR99-12D | 1,000 | 500 | 6 ³ / ₁₆ | 1 ³ / ₄ | 1 ⁷ / ₈ | 5/8 | 1/2 | 9/16 | 3 ⁷ / ₁₆ |

* NEMA spacing: 1³/₄" centers

UL listed. Connectors accommodating conductors 600 kcmil and larger have double row of set screws (D suffix).