# TurboFlex® Aluminum Core, Lightweight Duralectric™ L Insulation, 1250 VAC • 961-042 Imperial



## FEATURES

- TurboFlex with Duralectric L (light) insulation and aluminum conductor for lightest weight and best abrasion resistance

| How to Order TurboFlex® | | | | |
|---|---|---|---|---|
| **Sample Part Number** | **961-042** | **-A** | **-C** | **-2** |
| **Basic No.** | **TurboFlex** with .025" Duralectric L (light) Insulation, aluminum conductor | | | |
| **Conductor Material** | **-A** = Aluminum (-65 – 200°C) | | | |
| **Wire Size (See Table I)** | **R, S, A, B, C, D, E, F, G** | | | |
| **Duralectric L Insulation Color** | See Table II | | | |

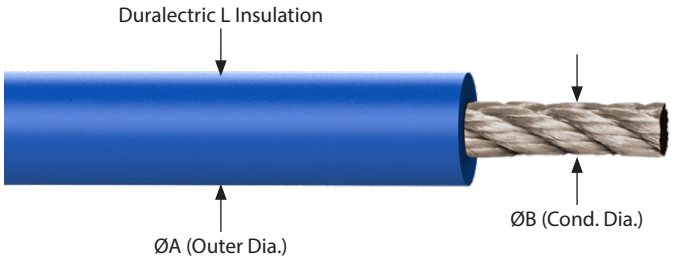


**Table I: TurboFlex Wire Size, Dimensions, DC Resistance and Ampacity Ratings**

| AWG Code | AWG | Strand / Count / AWG | Cir Mil (nom) | Ø B in. (mm) | DC Resistance @ 20°C (Ohms / 1000 ft.) | Typical Ampacity (Amps) 40°C Ambient |
|---|---|---|---|---|---|---|
| R | 16 | 7 X 15/36 | 2625 | .063 (1.60) | 6.85 | 15–25 |
| S | 14 | 7 X 24/36 | 4200 | .080 (2.03) | 4.26 | 15–35 |
| A | 12 | 7 X 37/36 | 6475 | .099 (2.51) | 2.80 | 25–45 |
| B | 10 | 7 X 59/36 | 10325 | .126 (3.20) | 1.69 | 30–60 |
| C | 8 | 7 X 95/36 | 16625 | .159 (4.04) | 1.07 | 45–90 |
| D | 6 | 7 X 150/36 | 26250 | .200 (5.08) | 0.67 | 60–120 |
| E | 4 | 7 X 7 X 34/36 | 41650 | .271 (6.88) | 0.42 | 80–165 |
| F | 2 | 7 X 7 X 54/36 | 66150 | .342 (8.69) | 0.26 | 115–130 |
| G | 1/0 | 7 X 7 X 86/36 | 105350 | .431 (10.95) | 0.16 | 150–310 |

Maximum ampacities are based on temperature rise to limits of the materials used in cable construction, based on single cable bundle in free air and at sea level pressure. Consult Glenair for more information.

**961-042 Wire Weight and Outer Diameter**

| AWG Code | Weight lbs/1000 ft. (nom.) | Ø A in. (mm) | Insulation wall thickness in. (mm) |
|---|---|---|---|
| R | 5.4 | .113 (2.87) | .025 (.64) |
| S | 7.5 | .130 (2.54) | |
| A | 10.3 | .149 (3.78) | |
| B | 14.9 | .176 (4.47) | |
| C | 22.1 | .209 (5.31) | |
| D | 32.8 | .250 (6.35) | |
| E | 50.0 | .321 (8.15) | |
| F | 76.0 | .392 (9.96) | |
| G | 116.9 | .481 (12.22) | |

**Table II: Duralectric L Insulation Color**

| Weatherproof, halogen free, flame resistant | |
|---|---|
| 0 | Black |
| 1 | Brown |
| 2 | Red |
| 3 | Orange |
| 4 | Yellow |
| 5 | Kelly Green |
| 6 | Blue |
| 7 | Violet |
| 8 | Gray |
| 9 | White |

Consult factory for other specific colors

## NOTES

1. Bend radius is 3X the outer diameter
2. Cable will be marked with "GLENAIR ALUMINUM TURBOFLEX LIGHT", wire gauge, part number, CAGE 06324.
3. Insulation thickness tolerance is ±.005


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Dimensions in Inches (millimeters) are subject to change without notice.