

ULTRA-FLEXIBLE TurboFlex Rugged Power Cable



TurboFlex® Copper Core, Duraelectric™ D Insulation, 1000 VAC
961-031

FEATURES

- .016" Duraelectric D insulation for 1000 VAC rating

HOW TO ORDER TURBOFLEX®

Sample Part Number	961	-031	-T	-A	-2
Basic No.	TurboFlex with Duraelectric D Insulation				
Wall Thickness	-031 = .016"				
Conductor Material	-T = Tin/Copper (-65 – 150°C) -S = Silver/Copper (-65 – 200°C) -N = Nickel/Copper (-65 – 200°C)				
Wire Size (See Table I)	T, R, S, A, B, C				
Duraelectric D Insulation Color	See Table II				

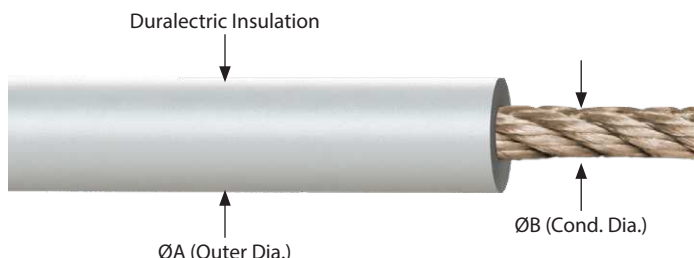


Table I: TurboFlex Wire Size, Dimensions, DC Resistance and Ampacity Ratings

AWG Code	AWG	Strand / Count / AWG	Cir Mil (nom)	Ø B in. (mm)	DC Resistance @ 20°C (Ohms / 1000 ft.)			Ampacity (Amps) 40°C Ambient	
					Nickel Copper	Tin Copper	Silver Copper	Nickel/Silver Copper	Tin Copper
T	20	42-36	1050	.037 (.94)	10.7178	10.7538	10.0747	10-25	10-20
R	16	7 X 15/36	2625	.063 (1.60)	4.5510	4.5930	4.2780	15-35	15-30
S	14	7 X 24/36	4200	.080 (2.03)	2.8450	2.8710	2.6740	20-50	20-45
A	12	7 X 37/36	6475	.099 (2.51)	1.8450	1.8620	1.7340	30-70	30-60
B	10	7 X 59/36	10325	.126 (3.20)	1.1570	1.1680	1.0880	40-90	40-75
C	8	7 X 95/36	16625	.159 (4.04)	.7188	.7252	.6755	55-135	55-115

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.

Table II: Duraelectric D 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

961-031 Wire Weight and Outer Diameter

AWG Code	Weight lbs/1000 ft. (nom.)	Ø A in. (mm)	Insulation wall thickness in. (mm)
T	5.00	.069 (1.75)	.016 (0.41)
R	11.10	.095 (2.41)	
S	16.90	.112 (2.84)	
A	25.00	.131 (3.33)	
B	38.70	.158 (4.01)	
C	60.70	.191 (4.85)	

NOTES

- Bend radius is 3X the outer diameter
- Cable will be marked with "GLENAIR TURBOFLEX", wire gauge, part number, CAGE 06324.
- Insulation thickness tolerance is ± 0.002
- NASA MAPTIS Registered, material code 09866