TurboFlex® Copper Core, Duralectric™ D Insulation, 3500 VAC
961-002 Imperial

FEATURES

- .093" Duralectric D insulation for 3500 VAC, 4900 VDC rating
- Service temperature range -65° to +200°C (consult factory for excursions beyond +200°C)

How to Order TurboFlex®					
Sample Part Number	**961**	**-002**	**-T**	**-G**	**-2**
Basic No.	**TurboFlex** with Duralectric D Insulation				
Wall Thickness	**-002** = .093"				
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)	**C, D, E, F, G, H, I, J, K, M, L**				
Duralectric D Insulation Color	See Table II				

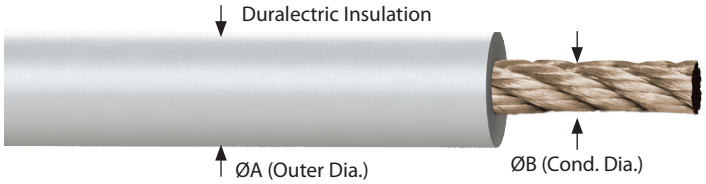

Table I: TurboFlex Wire Size, Dimensions, DC Resistance and Ampacity Ratings

AWG Code	AWG	Strand / Count / AWG	Cir Mil (nom)	Ø B in. (mm)	DC Resistance @ 20°C (Ohms / 1000 ft.)			Typical Ampacity (Amps) 40°C Ambient	
					Nickel Copper	Tin Copper	Silver Copper	Nickel/Silver Copper	Tin Copper
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
D	6	7 X 150/36	26250	.200 (5.08)	.4551	.4593	.4278	75–185	75–155
E	4	7 X 7 X 34/36	41650	.271 (6.88)	.2979	.3006	.2800	105–250	105–215
F	2	7 X 7 X 54/36	66150	.342 (8.69)	.1876	.1893	.1763	145–345	145–290
G	1/0	7 X 7 X 86/36	105350	.431 (10.95)	.1178	.1188	.1107	195–465	195–395
H	2/0	7 X 7 X 108/36	132300	.483 (12.27)	.0938	.0946	.0882	225–540	225–460
I	3/0	19 X 7 X 51/36	169575	.547 (13.89)	.0738	.0745	.0694	260–640	260–540
J	4/0	19 X 7 X 64/36	212800	.613 (15.57)	.0588	.0594	.0553	310–755	310–640
K	250 MCM	19 X 7 X 75/36	249375	.663 (16.84)	.0502	.0507	.0472	315–760	315–645
M	350 MCM	19 X 7 X 106/36	352450	.789 (20.04)	.0355	.0359	.0320	380–910	380–775
L	450 MCM	19 X 7 X 135/36	448875	.890 (22.61)	.0279	.0282	.0262	440–1040	440–890

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: Duralectric 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	

Wire Weight and Outer Diameter

AWG Code	Weight lbs/1000 ft. (nom.)	Ø A in. (mm)	Insulation wall thickness in. (mm)
R	35.80	.249 (6.32)	.093 (2.36)
S	44.00	.266 (6.76)	
A	54.90	.285 (7.24)	
B	72.40	.312 (7.92)	
C	99.10	.345 (8.76)	
D	138.40	.386 (9.80)	
E	207.40	.457 (11.61)	
F	304.60	.528 (13.41)	
G	455.80	.617 (15.67)	
H	558.20	.669 (16.99)	
I	703.90	.733 (18.62)	
J	866.50	.799 (20.29)	
K	1003.10	.849 (21.56)	
M	1385.50	.975 (24.76)	
L	1740.10	1.076 (27.33)	

NOTES

1. Bend radius is 3X the outer diameter
2. Cable will be marked with "GLENAIR TURBOFLEX", wire gauge, part number, CAGE 06324.
3. Insulation thickness tolerance is ±10%

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