

TurboFlex® Copper Core, Dual Duraelectric™ D/F Insulation/Jacket, 1000 VAC • 961-139 Imperial

SWAMP-ZONE / FUEL-RESISTANT

FEATURES

- TurboFlex with Duraelectric D insulation and Duraelectric F jacket for fire resistance and outstanding immersion performance in fuel and harsh fluids
- Resistant to jet fuels and oils and flexible to -65°C
- Suited for harsh environments that require low temp flex such as aircraft and ground vehicle fuel systems

How to Order TurboFlex®					
Sample Part Number	961-139	-N	-A	-2	-6
Basic No.	TurboFlex with Duraelectric D Insulation (.016") and Duraelectric F jacket (.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, D, E, F, G				
Duraelectric D Insulation Color	See Table II				
Duraelectric F Jacket	Blue color				

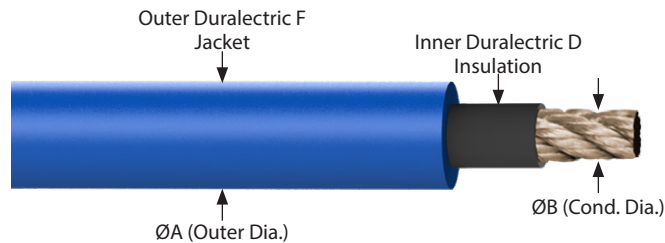


Table I: TurboFlex Wire Size, Dimensions, DC Resistance and Ampacity Ratings

AWG Code	AWG	Strand / Count / AWG	Cir Mil (nom)	Ø B in. (mm)	DC Resistance @ 20°C (Ohms / 1000 ft.)			Ampacity (A mps) 40°C Ambient	
					Nickel Copper	Tin Copper	Silver Copper	Nickel Copper	Tin/Silver Copper
T	20	42/36	1050	.037 (0.94)	10.7178	10.7538	10.0747	16	14
R	16	7 X 15/36	2625	.063 (1.60)	4.5510	4.5930	4.2780	40	36
S	14	7 X 24/36	4200	.080 (2.03)	2.8450	2.8710	2.6740	59	54
A	12	7 X 37/36	6475	.099 (2.51)	1.8450	1.8620	1.7340	78	68
B	10	7 X 59/36	10325	.126 (3.20)	1.1570	1.1680	1.0880	107	90
C	8	7 X 95/36	16625	.159 (4.04)	.7188	.7252	.6755	142	124
D	6	7 X 150/36	26250	.200 (5.08)	.4551	.4593	.4278	205	165
E	4	7 X 7 X 34/36	41650	.271 (6.88)	.2979	.3006	.2800	278	220
F	2	7 X 7 X 54/36	66150	.342 (8.69)	.1876	.1893	.1763	381	293
G	1/0	7 X 7 X 86/36	105350	.431 (10.95)	.1178	.1188	.1107	532	399

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™ F Jacket 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	

961-139 Wire Weight and Outer Diameter			
AWG Code	Weight lbs/1000 ft. (nom.)	Ø A in. (mm)	Total Jacket wall thickness in. (mm)
T	7.90	.101 (2.57)	.032 (0.81)
R	14.90	.127 (3.23)	
S	21.30	.144 (3.66)	
A	30.10	.163 (4.14)	
B	44.70	.190 (4.83)	
C	67.80	.223 (5.66)	
D	102.50	.264 (6.71)	
E	163.90	.335 (8.51)	
F	253.40	.406 (10.31)	
G	394.90	.495 (12.57)	

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 ±.002 and outer jacket thickness tolerance is ±.005