TurboFlex® Copper Core, Dual-Layer Duralectric™ D Jackets and Metallic Braided Shield, 3000 VAC • 961-161 Imperial

HIGH-POWER SHIELDED • COPPER CORE

FEATURES

- Metallic braided shield provides grounding for high-power applications.
- Inner black .093" Duralectric D Insulation to protect the conductor, surrounded with a metallic braided shield, with an outer .093" jacket for overall cable protection.

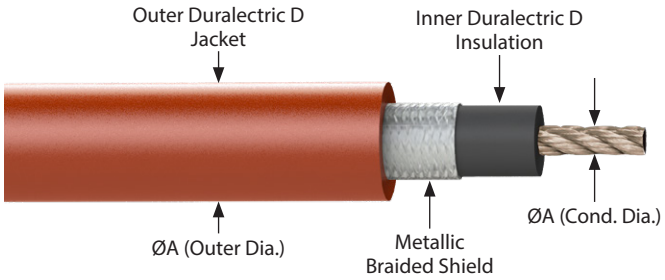
How to Order TurboFlex®				
Sample Part Number	**961-161**	**-T**	**-G**	**-2**
Basic No.	**TurboFlex** with Duralectric D Insulation / Jacket (.093" / .093")			
Conductor / Shield Material	**-T** = Tin/Copper (-65° - 150°C) **-S** = Silver/Copper (-65° - 200°C) **-N** = Nickel/Copper (-65° - 200°C)			
Wire Size (See Table I)	**R, S, A, B, C, D, E, F, G, H, I, J, K, L**			
Outer Duralectric D Jacket Color	See Table II			

Table I: TurboFlex Wire Size, Dimensions

AWG Code	AWG	Strand/ Count/ AWG	Cir Mil (nom)	Ø A Conductor in. (mm)	ØE in. (mm)	"B" Insulation Wall Thickness in. (mm)	"C" Shield Thickness in. (mm)	"D" Outer Jacket Wall Thickness in. (mm)
R	16	7 X 15/36	2625	.063 (1.60)	.457 (11.61)	.093 (2.36)	.011 (0.28)	.093 (2.36)
S	14	7 X 24/36	4200	.080 (2.03)	.474 (12.04)			
A	12	7 X 37/36	6475	.099 (2.51)	.493 (12.52)			
B	10	7 X 59/36	10325	.126 (3.20)	.520 (13.21)			
C	8	7 X 95/36	16625	.159 (4.04)	.553 (14.05)			
D	6	7 X 150/36	26250	.200 (5.08)	.594 (15.09)			
E	4	7 X 7 X 34/36	41650	.271 (6.88)	.665 (16.89)			
F	2	7 X 7 X 54/36	66150	.342 (8.69)	.736 (18.69)			
G	1/0	7 X 7 X 86/36	105350	.431 (10.95)	.825 (20.96)			
H	2/0	7 X 7 X 108/36	132300	.483 (12.27)	.877 (22.28)			
I	3/0	19 X 7 X 51/36	169575	.547 (13.89)	.941 (23.90)			
J	4/0	19 X 7 X 64/36	212800	.613 (15.57)	1.007 (25.58)			
K	250 MCM	19 X 7 X 75/36	249375	.663 (16.84)	1.057 (26.85)			
M	350 MCM	19 X 7 X 106/36	352450	.789 (20.04)	1.183 (30.05)			
L	450 MCM	19 X 7 X 135/36	448875	.890 (22.61)	1.284 (32.61)			

Table II: Duralectric™ D 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
OG	Dark Olive Green
DT	Desert Tan
Consult factory for other specific colors	



NOTES

1. Bend radius is 4X the outer diameter
2. Cable will be marked with "GLENAIR TURBOFLEX", wire gauge, part number, CAGE 06324.
3. Jacket thickness tolerance is ±10%
4. Braided shield has 90% optical coverage

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

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Table I: TurboFlex DC Resistance and Ampacity Ratings

AWG Code	DC Resistance @ 20°C (Ohms / 1000 ft.)			Ampacity (Amps) 40°C Ambient		Braided Shield Ampacity (Amps) 30°C Ambient
	Nickel Copper	Tin Copper	Silver Copper	Nickel Copper	Tin/Silver Copper	
R	4.5510	4.5930	4.2780	40	36	53
S	2.8450	2.8710	2.6740	59	54	35
A	1.8450	1.8620	1.7340	78	68	35
B	1.1570	1.1680	1.0880	107	90	42
C	.7188	.7252	.6755	142	124	42
D	.4551	.4593	.04278	205	165	53
E	.2979	.3006	.2800	278	220	55
F	.1876	.1893	.1763	381	293	62
G	.1178	.1188	.1107	532	399	70
H	.0938	.0946	.0882	591	467	77
I	.0738	.0745	.0694	708	546	77
J	.0588	.0594	.0553	830	629	71
K	.0502	.0507	.0472	910	705	71
M	.355	.359	.334	1140	880	71
L	.0279	.0282	.0262	1320	1020	80

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.

Ampacity Ratings: Ambient Temperature Correction Factors	
Ambient Temp (°C)	For ambient temperatures other than 40°C (104°F), multiply the allowable ampacities from the table above by the appropriate factor below
41 – 50	0.97
51 – 60	0.94
61 – 70	0.90
71 – 80	0.87
81 – 90	0.83
91 – 100	0.79
101 – 120	0.71
121 – 140	0.61
141 – 160	0.50
161 – 180	0.35
181 – 200	–––
201 – 255	–––

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