

# TurboFlex<sup>®</sup> Aluminum Core, Dual-Layer Duraelectric<sup>™</sup> D Jackets and Metallic Braided Shield, 3000 VAC • 961-162 Imperial

HIGH-POWER SHIELDED • ALUMINUM CORE

### FEATURES

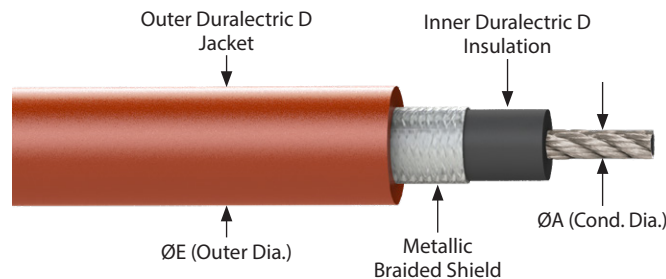
- Metallic braided shield provides grounding for high-power applications.
- Black .093" Duraelectric D insulation to protect the conductor, surrounded with a metallic braided shield, with an outer .093" jacket for overall cable protection.

How to Order TurboFlex <sup>®</sup>					
<b>Sample Part Number</b>	<b>961-162</b>	<b>-A</b>	<b>-T</b>	<b>-A</b>	<b>-2</b>
<b>Basic No.</b>	TurboFlex with Duraelectric D Insulation / Jacket (.093" / .093")				
<b>Conductor Material</b>	-A = Aluminum (-65 - 200°C)				
<b>Shield Material</b>	-T = Tin/Copper (-65° - 150°C)    -S = Silver/Copper (-65° - 200°C) -N = Nickel/Copper (-65° - 200°C)				
<b>Wire Size (See Table I)</b>	R, S, A, B, C, D, E, F, G, H, I, J, K, M, L				
<b>Outer Duraelectric D Jacket Color</b>	See Table II				

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)	.451 (11.46)	.093 (2.36)	.008 (0.20)	.093 (2.36)
S	14	7 X 24/36	4200	.080 (2.03)	.468 (11.89)			
A	12	7 X 37/36	6475	.099 (2.51)	.487 (12.37)			
B	10	7 X 59/36	10325	.126 (3.20)	.514 (13.06)			
C	8	7 X 95/36	16625	.159 (4.04)	.547 (13.89)			
D	6	7 X 150/36	26250	.200 (5.08)	.588 (14.94)			
E	4	7 X 7 X 34/36	41650	.271 (6.88)	.659 (16.74)			
F	2	7 X 7 X 54/36	66150	.342 (8.69)	.730 (18.54)			
G	1/0	7 X 7 X 86/36	105350	.431 (10.95)	.819 (20.80)			
H	2/0	7 X 7 X 108/36	132300	.483 (12.27)	.871 (22.12)			
I	3/0	19 X 7 X 51/36	169575	.547 (13.89)	.935 (23.75)			
J	4/0	19 X 7 X 64/36	212800	.613 (15.57)	1.001 (25.43)			
K	250 MCM	19 X 7 X 75/36	249375	.663 (16.84)	1.051 (26.70)			
M	350 MCM	19 X 7 X 106/36	352450	.789 (20.04)	1.177 (29.90)			
L	450 MCM	19 X 7 X 135/36	448875	.890 (22.61)	1.279 (32.49)			

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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**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
R	6.85	27	53
S	4.26	36	35
A	2.80	47	35
B	1.69	63	42
C	1.07	83	42
D	0.67	112	53
E	0.42	148	55
F	0.26	198	62
G	0.16	263	70
H	0.13	305	77
I	0.10	351	77
J	0.08	411	71
K	0.07	446	71
L	0.04	642	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)	Correction Factor
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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