

**TurboFlex® Copper, Dual-Layer Duraelectric™ D Ultra-Thin Insulation/  
Jacket, Metallic Braided Shield, 1000 VAC • 961-143 Imperial**

HIGH-POWER SHIELDED • COPPER CORE

**FEATURES**

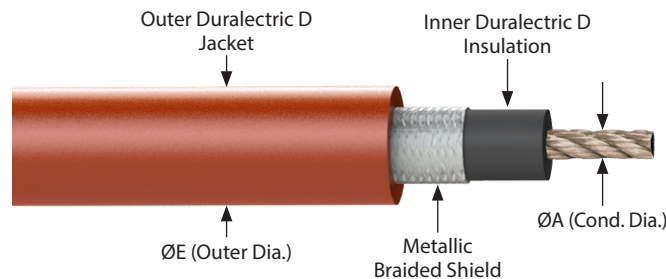
- Metallic braided shield provides grounding for high-power applications.
- Inner black ultra thin-wall Duraelectric D insulation to protect the conductor, surrounded with a metallic braided shield, with an outer ultra thin-wall jacket for overall cable protection.

How to Order TurboFlex®				
<b>Sample Part Number</b>	<b>961-143</b>	<b>-T</b>	<b>-A</b>	<b>-2</b>
<b>Basic No.</b>	TurboFlex with ultra-thin Duraelectric D Insulation/Jacket (.016"/.016")			
<b>Conductor / 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>	<b>T, R, S, A, B, C, D, E, F, G</b>			
<b>Outer Duraelectric D Jacket Color</b>	See Table II			

AWG Code	AWG	Strand / Count / AWG	Cir Mil (nom)	Ø A in. (mm)	"B" Insulation Wall Thickness in. (mm)	"C" Shield Thickness in. (mm)	"D" Outer Jacket Wall Thickness in. (mm)	Ø E in. (mm)
T	20	42/36	1050	.037 (0.94)	.016 (0.41)	0.011 (0.28)	.016 (0.41)	.123 (3.12)
R	16	7 X 15/36	2625	.063 (1.60)				.149 (3.78)
S	14	7 X 24/36	4200	.080 (2.03)				.166 (4.22)
A	12	7 X 37/36	6475	.099 (2.51)				.185 (4.70)
B	10	7 X 59/36	10325	.126 (3.20)				.212 (5.38)
C	8	7 X 95/36	16625	.159 (4.04)				.245 (6.22)
D	6	7 X 150/36	26250	.200 (5.08)				.286 (7.26)
E	4	7 X 7 X 34/36	41650	.271 (6.88)				.357 (9.07)
F	2	7 X 7 X 54/36	66150	.342 (8.69)				.428 (10.87)
G	1/0	7 X 7 X 86/36	105350	.431 (10.95)				.517 (13.13)

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



**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 ±.002
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
	Nickel Copper	Tin Copper	Silver Copper	Nickel Copper	Tin/Silver Copper	
T	10.7178	10.7538	10.0747	16	14	11
R	4.5510	4.5930	4.2780	40	36	16
S	2.8450	2.8710	2.6740	59	54	19
A	1.8450	1.8620	1.7340	78	68	25
B	1.1570	1.1680	1.0880	107	90	40
C	0.7188	0.7252	0.6755	142	124	32
D	0.4551	0.4593	0.4278	205	165	46
E	0.2979	0.3006	0.2800	278	220	35
F	0.1876	0.1893	0.1763	381	293	53
G	0.1178	0.1188	0.1107	532	399	55

Ampacity Ratings: Ambient Temperature Correction Factors	
<b>Ambient Temp (°C)</b>	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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