TurboFlex® Copper, Dual-Layer Duralectric™ D Thin-Wall Insulation/ Jacket, Metallic Braided Shield, 2000 VAC • 961-129 Imperial

FEATURES

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

How to Order TurboFlex®				
Sample Part Number	**961-129**	**-T**	**-A**	**-2**
Basic No.	**TurboFlex** with thin-wall Duralectric D Insulation / Jacket (.032"/.030")			
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)	**T**, **R**, **S**, **A**, **B**, **C**, **D**, **E**, **F**, **G**			
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 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)	0.032 (0.81)	0.011 (0.28)	0.030 (0.76)	0.183 (4.65)
R	16	7 X 15/36	2625	.063 (1.60)				0.209 (5.31)
S	14	7 X 24/36	4200	.080 (2.03)				0.226 (5.74)
A	12	7 X 37/36	6475	.099 (2.51)				0.245 (6.22)
B	10	7 X 59/36	10325	.126 (3.20)				0.272 (6.91)
C	8	7 X 95/36	16625	.159 (4.04)				0.305 (7.75)
D	6	7 X 150/36	26250	.200 (5.08)				0.346 (8.79)
E	4	7 X 7 X 34/36	41650	.271 (6.88)				0.417 (10.59)
F	2	7 X 7 X 54/36	66150	.342 (8.69)				0.488 (12.40)
G	1/0	7 X 7 X 86/36	105350	.431 (10.95)				0.577 (14.66)

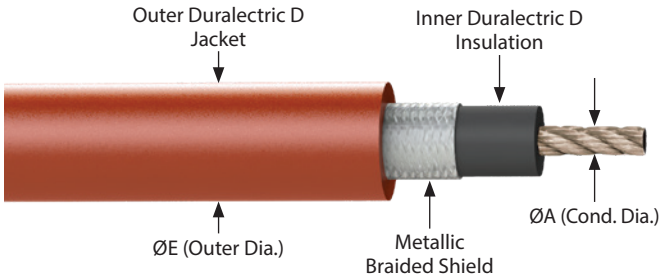

Table II: Duralectric™ D Jacket Color

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
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 ±.005
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/Silver Copper	Tin Copper	
T	10.7178	10.7538	10.0747	10–25	10–20	16
R	4.5510	4.5930	4.2780	15–35	15–30	25
S	2.8450	2.8710	2.6740	20–50	20–45	25
A	1.8450	1.8620	1.7340	30–70	30–60	32
B	1.1570	1.1680	1.0880	40–90	40–75	32
C	0.7188	0.7252	0.6755	55–135	55–115	46
D	0.4551	0.4593	0.4278	75–185	75–155	35
E	0.2979	0.3006	0.2800	105–250	105–215	42
F	0.1876	0.1893	0.1763	145–345	145–290	53
G	0.1178	0.1188	0.1107	195–465	195–395	62
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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