

with Duralectric™ D Jacket, metallic braided shielding for grounding in high-power applications, 2000VAC • 961-129

961-129 TURBOFLEX WITH METALLIC BRAIDED SHIELDING

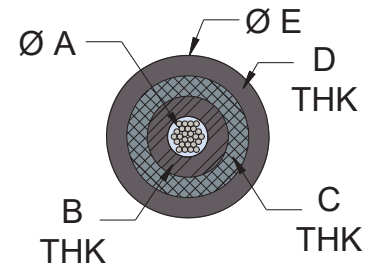
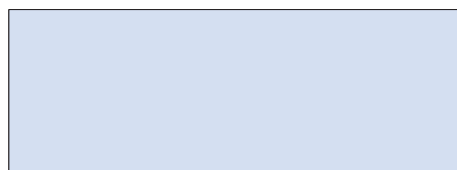
■ Metallic braided shield provides grounding for high-power applications. 961-129 features an inner black Duralectric D jacket to protect the conductor, surrounded with the metallic shield, with an outer jacket for overall cable protection.

How to Order TurboFlex®				
Sample Part Number	961-129	-T	-A	-2
Basic No.	TurboFlex with Duralectric D Jacket			
Conductor / Screen Material	-T = Tin/Copper (-60° - 150°C) -S = Silver/Copper (-60° - 200°C) -N = Nickel/Copper (-60° - 260°C)			
Wire Size (See Table I)	T, R, S, A, B, C, D, E, F, G, H, I, J			
Outer Duralectric D Jacket Color	See Table II			

Voltage Ratings		
P/N	AC Voltage Rating, RMS	DC Voltage Rating
961-129	2000	2800

Table I: TurboFlex Wire Size, Dimensions								
AWG Code	AWG	Strand / Count / AWG	Cir Mil (nom)	Ø A in. (mm)	"B" Inner Jacket Wall Thickness in. (mm)	"C" Screen Thickness in. (mm)	"D" Outer Jacket Wall Thickness in. (mm)	Ø E in. (mm)
T	20	42/36	1050	0.037 (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	0.063 (1.60)				0.209 (5.31)
S	14	7 X 24/36	4200	0.080 (2.03)				0.226 (5.74)
A	12	7 X 37/36	6475	0.099 (2.51)				0.245 (6.22)
B	10	7 X 59/36	10325	0.126 (3.20)				0.272 (6.91)
C	8	7 X 95/36	16625	0.159 (4.04)				0.305 (7.75)
D	6	7 X 150/36	26250	0.200 (5.08)				0.346 (8.79)
E	4	7 X 7 X 34/36	41650	0.271 (6.88)				0.417 (10.59)
F	2	7 X 7 X 54/36	66150	0.342 (8.69)				0.488 (12.40)
G	1/0	7 X 7 X 86/36	105350	0.431 (10.95)				0.577 (14.66)
H	2/0	7 X 7 X 108/36	132300	0.483 (12.27)				0.629 (15.98)
I	3/0	19 X 7 X 51/36	169575	0.547 (13.89)	0.693 (17.60)			
J	4/0	19 X 7 X 64/36	212800	0.613 (15.57)	0.759 (19.28)			

Table II: Duralectric™ D Jacket Color	
Weatherproof, halogen free, flame resistant, functional to 260°C	
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 is 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		Braid 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	16
R	4.5510	4.5930	4.2780	40	36	25
S	2.8450	2.8710	2.6740	59	54	25
A	1.8450	1.8620	1.7340	78	68	32
B	1.1570	1.1680	1.0880	107	90	32
C	0.7188	0.7252	0.6755	142	124	46
D	0.4551	0.4593	0.4278	205	165	35
E	0.2979	0.3006	0.2800	278	220	42
F	0.1876	0.1893	0.1763	381	293	53
G	0.1178	0.1188	0.1107	532	399	62
H	0.0938	0.0946	0.0882	591	467	62
I	0.0738	0.0745	0.0694	708	546	70
J	0.0588	0.0594	0.0553	830	629	77

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	-----