

with Duralectric™ D Jacket, metallic braided shielding for grounding in high-power applications, 3000VAC • 961-007

**961-007 TURBOFLEX WITH METALLIC BRAIDED SHIELDING**

■ **Metallic braided shield provides grounding for high-power applications. 961-007 features an inner black Duralectric D jacket to protect the conductor, surrounded with the metallic shield, with an outer jacket for overall cable protection.**

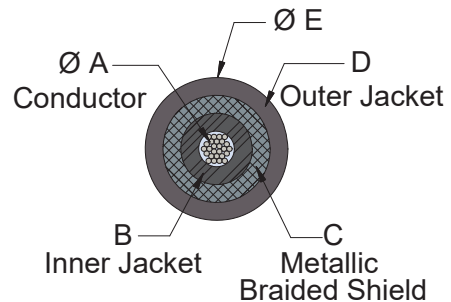
How to Order TurboFlex®				
Sample Part Number	961-007	-T	-A	-2
Basic No.	TurboFlex with Duralectric D Jacket			
Conductor / Braided Shield Material	-T = Tin/Copper (-60° - 150°C)    -S = Silver/Copper (-60° - 200°C) -N = Nickel/Copper (-60° - 260°C)			
Wire Size (See Table I)	A, B, C, D, E, F, G, H, I, J, K, M			
Outer Duralectric D Jacket Color	See Table II			

Voltage Ratings		
P/N	AC Voltage Rating, RMS	DC Voltage Rating
961-007	3000	4200

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)
A	12	7 X 37/36	6475	.099 (2.51)	.062 (1.57)	.011 (0.28)	.062 (1.57)	.369 (9.37)
B	10	7 X 59/36	10325	.126 (3.20)				.396 (10.06)
C	8	7 X 95/36	16625	.159 (4.04)				.429 (10.90)
D	6	7 X 150/36	26250	.200 (5.08)				.470 (11.94)
E	4	7 X 7 X 34/36	41650	.271 (6.88)				.541 (13.74)
F	2	7 X 7 X 54/36	66150	.342 (8.69)				.612 (15.54)
G	1/0	7 X 7 X 86/36	105350	.431 (10.95)				.701 (17.81)
H	2/0	7 X 7 X 108/36	132300	.483 (12.27)				.753 (19.13)
I	3/0	19 X 7 X 51/36	169575	.547 (13.89)				.817 (20.75)
J	4/0	19 X 7 X 64/36	212800	.613 (15.57)				.883 (22.43)
K	250 MCM	19 X 7 X 75/36	249375	.663 (16.84)				.933 (23.70)
M	350 MCM	19 X 7 X 106/36	352450	.789 (20.04)				1.059 (26.90)

Weatherproof, halogen free, flame resistant, functional to 260°C		
0	Black	Fed-Std-595C #17038
1	Brown	[TBD]
2	Red	Fed-Std-595C #11120
3	Orange	Fed-Std-595C #12300
4	Yellow	Fed-Std-595C #13591
5	Kelly Green	Fed-Std-595C #14193
6	Blue	Fed-Std-595C #15125
7	Violet	Fed-Std-595C #17142
8	Gray	Fed-Std-595C #26270
9	White	Fed-Std-595C #17875
OG	Dark Olive Green	Fed-Std-595C #34094
DT	Desert Tan	Fed-Std-595C #33446

Consult factory for other specific Fed Std 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

SERIES 96

**turboflex** ultra-flexible power distribution cable



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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	
A	1.8450	1.8620	1.7340	78	68	46
B	1.1570	1.1680	1.0880	107	90	53
C	.7188	.7252	.6755	142	124	35
D	.4551	.4593	.4278	205	165	42
E	.2979	.3006	.2800	278	220	53
F	.1876	.1893	.1763	381	293	56
G	.1178	.1188	.1107	532	399	73
H	.0938	.0946	.0882	591	467	73
I	.0738	.0745	.0694	708	546	85
J	.0588	.0594	.0553	830	629	86
K	.0502	.0507	.0472	910	705	88
M	.0355	.0359	.0334	1140	880	64

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	----