

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.**

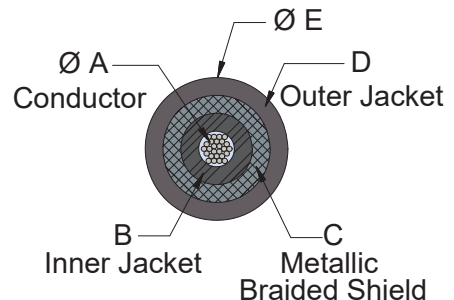
How to Order TurboFlex®				
Sample Part Number	961-007	-T	-A	-2
Basic No.	TurboFlex with Duralectric D Jacket			
Conductor / Braided Shield Material	-T = Tin/Copper (-60° - 150°C) -S = Silver/Copper (-60° - 200°C) -N = Nickel/Copper (-60° - 260°C)			
Wire Size (See Table I)	A, B, C, D, E, F, G, H, I,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

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)
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)

Table II: Duralectric™ D Jacket Color		
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	
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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