TurboFlex® Copper Core, Dual-Layer Duralectric™ D Insulation/Jacket, Metallic Braided Shield, 3000 VAC • 961-007 Imperial

FEATURES

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

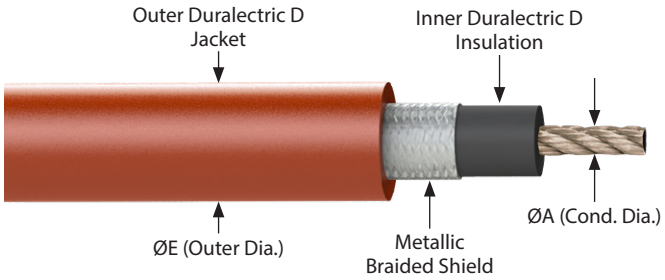
How to Order TurboFlex®				
Sample Part Number	**961-007**	**-T**	**-A**	**-2**
Basic No.	**TurboFlex** with Duralectric D Insulation/Jacket (.062")			
Conductor / Braided Shield Material	**-T** = Tin/Copper (-65° - 150°C) **-S** = Silver/Copper (-65° - 200°C) **-N** = Nickel/Copper (-65° - 200°C)			
Wire Size (See Table I)	**R, S, A, B, C, D, E, F, G, H, I, J, K, M, L**			
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)
R	16	7 X 15/36	2625	.063 (1.60)	.062 (1.57)	.011 (0.28)	.062 (1.57)	.333 (8.46)
S	14	7 X 24/36	4200	.080 (2.03)				.350 (8.89)
A	12	7 X 37/36	6475	.099 (2.51)				.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)
L	450 MCM	19 X 7 X 135/36	448875	.890 (22.61)				1.160 (29.46)

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
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. Insulation thickness tolerance is ±10%
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.)			Typical Ampacity (Amps) 40°C Ambient		Braided Shield Ampacity (Amps) 30°C Ambient
	Nickel Copper	Tin Copper	Silver Copper	Nickel/Silver Copper	Tin Copper	
R	4.5510	4.5930	4.2780	15–35	15–30	32
S	2.8450	2.8710	2.6740	20–50	20–45	46
A	1.8450	1.8620	1.7340	30–70	30–60	46
B	1.1570	1.1680	1.0880	40–90	40–75	53
C	.7188	.7252	.6755	55–135	55–115	35
D	.4551	.4593	.4278	75–185	75–155	42
E	.2979	.3006	.2800	105–250	105–215	53
F	.1876	.1893	.1763	145–345	145–290	55
G	.1178	.1188	.1107	195–465	195–395	62
H	.0938	.0946	.0882	225–540	225–460	70
I	.0738	.0745	.0694	260–640	260–540	77
J	.0588	.0594	.0553	310–755	310–640	77
K	.0502	.0507	.0472	315–760	315–645	88
M	.0355	.0359	.0334	380–910	380–775	71
L	.0279	.0282	.0262	440–1040	440–890	80

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	----