

TurboFlex® Copper Core, Dual-Layer Duraelectric™ D Insulation/Jacket, Metallic Braided Shield, 3000 VAC • 961-005 Metric

HIGH-POWER SHIELDED • COPPER CORE

FEATURES

- Metallic braided shield provides grounding for high-power applications.
- Inner black Duraelectric 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	961-005	-T	-A	-2
Basic No.	TurboFlex with Duraelectric D Insulation / Jacket (1.57mm)			
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)	A, B, C, D, E, F, G, H, I, J, K, L, M			
Outer Duraelectric D Jacket Color	See Table II			

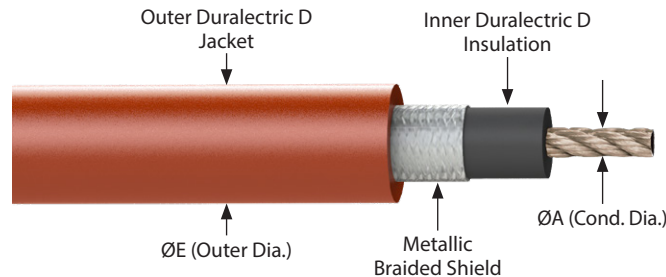
Table I: TurboFlex Wire Size, Dimensions

AWG Code	mm²	Strand / Count / AWG	Ø A mm	"B" Insulation Wall Thickness mm	"C" Shield Thickness mm	"D" Outer Jacket Wall Thickness mm	Ø E mm
A	4	7 X 37/36	2.52	1.57	.28	1.57	9.36
B	6	7 X 59/36	3.20				10.04
C	10	7 X 95/36	4.04				10.88
D	16	7 X 150/36	5.08				11.92
E	25	7 X 7 X 34/36	6.88				13.72
F	35	7 X 7 X 54/36	8.69				15.53
G	50	7 X 7 X 86/36	10.95				17.79
H	70	19 X 7 X 42/36	12.60				19.44
I	95	19 X 7 X 51/36	13.90				20.74
J	120	19 X 7 X 75/36	16.84				23.68
K	150	19 X 7 X 91/36	18.57				25.41
L	185	19 X 7 X 106/36	20.04				26.88
M	240	19 X 7 X 135/36	22.61				29.45

*Metric equivalent to 36AWG is 0.0127mm²

Table II: Duraelectric™ 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. Jacket thickness tolerance is ±10%
4. Braided shield has 90% optical coverage

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Table I: TurboFlex DC Resistance and Ampacity Ratings

AWG Code	DC Resistance @ 20°C (Ohms / 1000m)			Ampacity (Amps) 40°C Ambient		Braided Shield Ampacity (Amps) 30°C Ambient
	Nickel Copper	Tin Copper	Silver Copper	Nickel Copper	Tin/Silver Copper	
A	6.0516	6.1074	5.6875	78	68	46
B	3.7950	3.8310	3.5686	107	90	53
C	2.3577	2.3787	2.2156	142	124	35
D	1.4927	1.5065	1.4032	205	165	42
E	.9771	.9860	.9184	278	220	53
F	.6153	.6209	.5783	381	293	55
G	.3864	.3897	.3631	532	399	62
H	.2942	.2968	.2765	----	----	70
I	.2421	.2444	.2276	708	546	77
J	.1647	.1663	.1548	910	705	88
K	.1358	.1371	.1276	----	----	71
L	.1164	.1178	.1096	1140	880	71
M	.0915	.0925	.0859	1320	1020	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	----

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