TurboFlex® Copper, Dual-Layer Duralectric™ D Insulation/Jacket, Microfilament Braided Shield, 1000 VAC • 961-157 Imperial

MICROFILAMENT BRAIDED • COPPER CORE

FEATURES

- Glenair microfilament braided shield (ArmorLite™ or AmberStrand) provides lightweight grounding.
- Black Duralectric D insulation to protect the conductor, surrounded with a lightweight microfilament braided shield, with an outer jacket for overall cable protection.

How to Order TurboFlex®					
Sample Part Number	**961-157**	**-T**	**-AM**	**-A**	**-2**
Basic No.	**TurboFlex** with .016" Duralectric D Jackets				
Conductor Material	**-T** = Tin/Copper (-65° - 150°C) **-S** = Silver/Copper (-65° - 200°C) **-N** = Nickel/Copper (-65° - 200°C)				
Braided Shield Material	**-AM** = AmberStrand **-AR** = ArmorLite **-CF** = ArmorLite CF				
Wire Size (See Table I)	**T, R, S, A, B, C, D, E, F, G**				
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)
T	20	42/36	1050	.037 (0.94)	.016 (0.41)	.008 (0.20)	.016 (0.41)	.177 (4.50)
R	16	7 X 15/36	2625	.063 (1.60)				.143 (3.63)
S	14	7 X 24/36	4200	.080 (2.03)				.160 (4.06)
A	12	7 X 37/36	6475	.099 (2.51)				.179 (4.55)
B	10	7 X 59/36	10325	.126 (3.20)				.206 (5.23)
C	8	7 X 95/36	16625	.159 (4.04)				.239 (6.07)
D	6	7 X 150/36	26250	.200 (5.08)				.280 (7.11)
E	4	7 X 7 X 34/36	41650	.271 (6.88)				.351 (8.92)
F	2	7 X 7 X 54/36	66150	.342 (8.69)				.422 (10.72)
G	1/0	7 X 7 X 86/36	105350	.431 (10.95)				.511 (12.98)

Temperature Ratings in °C are dependent on selected conductor and shield material			
Shield Material	**Conductor Material**		
	Tin (-65°/+150°)	**Silver (-65°/+200°)**	**Nickel (-65°/+200°)**
AmberStrand (-80°/+220°)	-65° / +150°	-65° / +200°	-65° / +220°
ArmorLite (-80°/+260°)	-65° / +150°	-65° / +200°	-65° / +200°
ArmorLite CF (-80°/+400°)	-65° / +150°	-65° / +200°	-65° / +200°

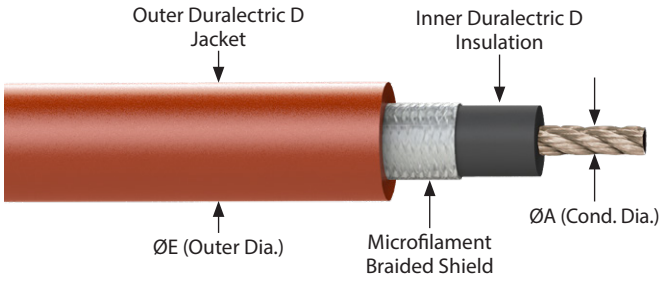

Table II: Duralectric™ D Jacket Color

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
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 ±.002
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.)			Ampacity (Amps) 40°C Ambient	
	Nickel Copper	Tin Copper	Silver Copper	Nickel Copper	Tin/Silver Copper
T	10.718	10.7538	10.0747	16	14
R	4.5510	4.5930	4.2780	40	36
S	2.8450	2.8710	2.6740	59	54
A	1.8450	1.8620	1.7340	78	68
B	1.1570	1.1680	1.0880	107	90
C	.7188	.7252	.6755	142	124
D	.4551	.4593	.4278	205	165
E	.2979	.3006	.2800	278	220
F	.1876	.1893	.1763	381	293
G	.1178	.1188	.1107	532	399
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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