TurboFlex® Aluminum Core, Dual-Layer Duralectric™ D Jackets, Microfilament Braided Shield, 2000 VAC • 961-156 Imperial

MICROFILAMENT BRAIDED • ALUMINUM CORE

FEATURES

- Weight-saving aluminum core conductor
- 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	961–156	–A	–AM	–A	–2
Basic No.	**TurboFlex** with .032" / .030" Duralectric D Insulation / Jacket				
Conductor Material	**-A** = Aluminum (-65 – 175°C)				
Braided Shield Material	**-AM** = AmberStrand **-AR** = ArmorLite **-CF** = ArmorLite CF				
Wire Size (See Table I)	**R, S, A, B, C, D, E, F, G, H, I, J**				
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)	.032 (0.81)	.008 (0.20)	.030 (0.76)	.203 (5.16)
S	14	7 X 24/36	4200	.080 (2.03)				.220 (5.59)
A	12	7 X 37/36	6475	.099 (2.51)				.239 (6.07)
B	10	7 X 59/36	10325	.126 (3.20)				.266 (6.76)
C	8	7 X 95/36	16625	.159 (4.04)				.299 (7.59)
D	6	19 X 55/36	26125	.200 (5.08)				.340 (8.64)
E	4	7 X 7 X 34/36	41650	.271 (6.88)				.411 (10.44)
F	2	7 X 7 X 54/36	66150	.342 (8.69)				.482 (12.24)
G	1/0	7 X 7 X 86/36	105350	.431 (10.95)				.571 (14.50)
H	2/0	19 X 7 X 40/36	133000	.483 (12.27)				.623 (15.82)
I	3/0	19 X 7 X 51/36	169575	.547 (13.89)				.687 (17.45)
J	4/0	19 X 7 X 64/36	212800	.613 (15.57)				.753 (19.13)

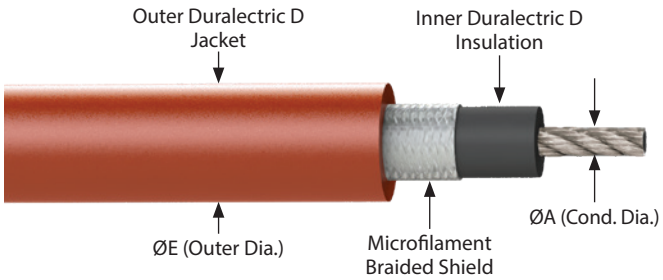

Table II: Duralectric™ D Jacket Color

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 ±.005
4. Braided shield has 90% optical coverage
5. Consult factory for applications above 175°C, and available thermal endurance test reports

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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)**
R	6.85	15-20
S	4.26	15-30
A	2.80	25-40
B	1.69	30-50
C	1.07	45-80
D	0.67	60-110
E	0.42	80-150
F	0.26	115-205
G	0.16	150-280
H	0.13	175-325
I	0.10	205-380
J	0.08	240-450
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

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