

ULTRA-FLEXIBLE TurboFlex Rugged Power Cable



TurboFlex® Aluminum Core, Dual-Layer Duraelectric™ D Jackets, Microfilament Braided Shield, 3000 VAC • 961-154

FEATURES

- Weight-saving aluminum core conductor
- Glenair microfilament braided shield (ArmorLite™ or AmberStrand) provides lightweight grounding.
- Black Duraelectric 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				
Basic No.	TurboFlex with .062" Duraelectric D Insulation / Jacket	961-154	-A	-AM
Conductor Material	-A = Aluminum (-65 – 175°C)		-A	-2
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, K, L			
Outer Duraelectric D Jacket Color	See Table II			

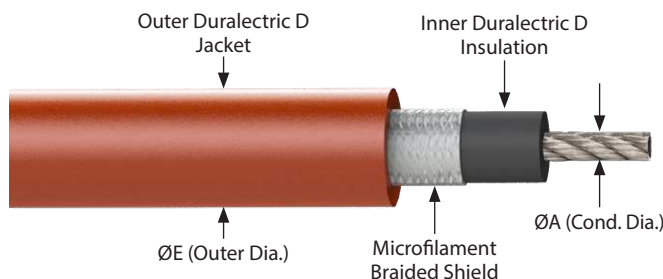
Table I: TurboFlex Wire Size, Dimensions

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)	.008 (0.20)	.062 (1.57)	.327 (8.31)
S	14	7 X 24/36	4200	.080 (2.03)				.344 (8.74)
A	12	7 X 37/36	6475	.099 (2.51)				.363 (9.22)
B	10	7 X 59/36	10325	.126 (3.20)				.390 (9.91)
C	8	7 X 95/36	16625	.159 (4.04)				.423 (10.74)
D	6	19 X 55/36	26125	.200 (5.08)				.464 (11.79)
E	4	7 X 7 X 34/36	41650	.271 (6.88)				.535 (13.59)
F	2	7 X 7 X 54/36	66150	.342 (8.69)				.606 (15.39)
G	1/0	7 X 7 X 86/36	105350	.431 (10.95)				.695 (17.65)
H	2/0	7 X 7 X 108/36	133000	.483 (12.27)				.747 (18.97)
I	3/0	19 X 7 X 51/36	169575	.547 (13.89)				.811 (20.60)
J	4/0	19 X 7 X 64/36	212800	.613 (15.57)				.877 (22.28)
K	250 MCM	19 X 7 X 75/36	249375	.663 (16.84)				.927 (23.55)
L	450 MCM	19 X 19 X 50/36	451250	.890 (22.61)				1.154 (29.31)

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

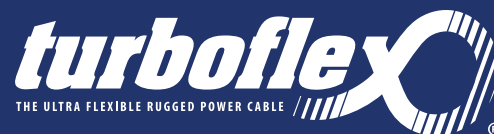
Consult factory for other specific colors



NOTES

- Bend radius is 4X the outer diameter
- Cable will be marked with "GLENAIR TURBOFLEX", wire gauge, part number, CAGE 06324.
- Jacket thickness tolerance is $\pm 10\%$
- Braided shield has 90% optical coverage
- Consult factory for applications above 175°C, and available thermal endurance test reports

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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
K	0.07	245-455
L	0.04	345-630

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

TURBOFLEX