

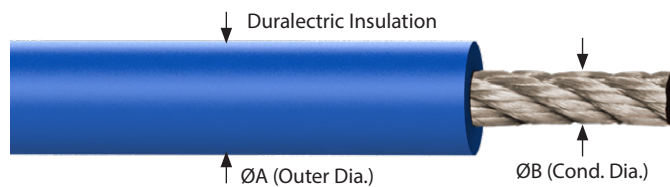
TurboFlex® Aluminum Core, Duralectric™ D Insulation, 3500 VAC, 961-165 Imperial

GENERAL-DUTY • ALUMINUM CORE

FEATURES

- For weight savings: all the benefits of TurboFlex wire and Duralectric D insulation with lightweight aluminum core conductor

How to Order TurboFlex®					
Sample Part Number	961	-165	-A	-H	-2
Basic No.	TurboFlex with Duralectric D Insulation				
Wall Thickness	-165 = .093"				
Conductor Material	-A = Aluminum (-65 – 200°C)				
Wire Size (See Table I)	R, S, A, B, C, D, E, F, G, H, I, J, K, L				
Duralectric D Insulation Color	See Table II				



AWG Code	AWG	Strand / Count / AWG	Cir Mil (nom)	Ø B in. (mm)	DC Resistance @ 20°C (Ohms/1000 ft.)	Ampacity (Amps) 40°C Ambient
R	16	7 X 15/36	2625	.063 (1.60)	6.85	27
S	14	7 X 24/36	4200	.080 (2.03)	4.26	36
A	12	7 X 37/36	6475	.099 (2.51)	2.80	47
B	10	7 X 59/36	10325	.126 (3.20)	1.69	63
C	8	7 X 95/36	16625	.159 (4.04)	1.07	83
D	6	7 X 150/36	26250	.200 (5.08)	0.67	112
E	4	7 X 7 X 34/36	41650	.271 (6.88)	0.42	148
F	2	7 X 7 X 54/36	66150	.342 (8.69)	0.26	198
G	1/0	7 X 7 X 86/36	105350	.431 (10.95)	0.16	263
H	2/0	7 X 7 X 108/36	133000	.483 (12.27)	0.13	305
I	3/0	19 X 7 X 51/36	169575	.547 (13.89)	0.10	351
J	4/0	19 X 7 X 64/36	212800	.613 (15.57)	0.08	411
K	250MCM	19 X 7 X 75/36	249375	.663	0.07	446
L	450MCM	19 X 7 X 50/36	451250	.890	0.04	642

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.

Ambient Temp (°C)	Correction Factor
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	----

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

AWG Code	Weight lbs/1000 ft. (nom.)	Ø A in. (mm)	Insulation wall thickness in. (mm)
R	29.7	.249	.062 (1.57)
S	34.3	.266	
A	39.9	.285	
B	48.5	.312	
C	60.7	.345	
D	77.7	.386	
E	105.8	.457	
F	143.2	.528	
G	198.8	.617	
H	236.3	.669	
I	284.9	.733	
J	340.7	.799	
K	387.0	.849	
L	633.5	1.076	

NOTES

- Bend radius is 3X the outer diameter
- Cable will be marked with "GLENAIR TURBOFLEX", wire gauge, part number, CAGE 06324.
- Insulation thickness tolerance is ±10%