

HIGH-TEMPERATURE, MICRO MINIATURE CIRCULAR

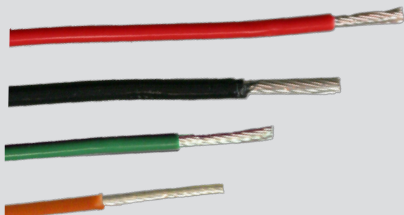
Series 806

Mil-Aero Connectors

961-047 300 °C ThermaRex Wire



961-047 THERMAREX HIGH TEMPERATURE WIRE



How To Order					
SAMPLE PART NUMBER		961-047	-N	-A	2
Series / Basic Part No.	961-047 = 300°C ThermaRex Wire				
Material	N = nickel/copper (-40°C to 300°C)				
Wire Size	See Table I				
Jacket Color	See Table II				

NOTES

1. Bend Radius is 3X the O.D.
2. Based on NEC Table 310.19
3. Voltage rating is 1000 volts AC
4. Insulation material is 300°C high temperature thermoplastic



TABLE 1

Awg Code	Awg	Strand/Count/Awg	Cir Mil (Nom)	Weight Lbs/1000' (Nom)	Ø A	Ø B	Nickel Copper DC Res @ 20°C ohms/1000ft	Nickel Copper Ampacity (Amps) 40°C Ambient (See Note 2)	Jacket Wall Thickness (In)
A	24	19/36	475	3.45	0.044 (1.12)	0.024 (0.61)	38.4	TBD	0.010 (0.25)
B	22	19/34	754	4.58	0.050 (1.27)	0.030 (0.76)	24.1	TBD	0.010 (0.25)
C	20	19/32	1216	6.43	0.068 (1.73)	0.038 (0.97)	14.8	16	0.015 (0.38)
D	16	37/31	2931	13.1	0.090 (2.29)	0.060 (1.52)	6.33	40	0.015 (0.38)
E	14	7x7/30	4900	21.1	0.121 (3.07)	0.091 (2.31)	3.87	59	0.015 (0.38)
F	12	7x7/29	6257	25.9	0.132 (3.35)	0.102 (2.59)	3.03	78	0.015 (0.38)
G	10	7x19/31	10535	41.5	0.157 (3.99)	0.127 (3.23)	1.81	107	0.015 (0.38)
H	8	7x19/29	16983	63.9	0.191 (4.85)	0.161 (4.09)	1.12	142	0.015 (0.38)
J	6	7x19/27	27200	TBD	0.233 (5.92)	0.203 (5.16)	0.68	TBD	0.015 (0.38)

Table II: Jacket Color Option

Color Code	Color
0	Black
1	Brown
2	Red
3	Orange
4	Yellow
5	Kelly Green
6	Blue
7	Violet
8	Gray
9	White

CORRECTION FACTORS

For ambient temperatures other than 40°C (104°F), multiply the allowable ampacities by the appropriate factor shown below.			
Ambient Temp. (°C)	Correction Factors	Ambient Temp. (°C)	Correction Factors
41-50	0.98	161-170	0.71
51-60	0.96	171-180	0.69
61-70	0.94	181-190	0.66
71-80	0.92	191-200	0.63
81-90	0.90	201-210	0.60
91-100	0.88	211-220	0.56
101-110	0.86	221-230	0.53
111-120	0.84	231-240	0.49
121-130	0.81	241-250	0.45
131-140	0.79	251-260	0.40
141-150	0.77	261-270	0.35
151-160	0.74	271-280	0.29