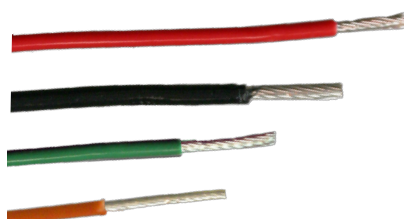


# EXTREME-TEMPERATURE TOLERANT ThermaRex Interconnect Solutions



## 961-047 300°C Ultra-High Temperature Flexible Wire

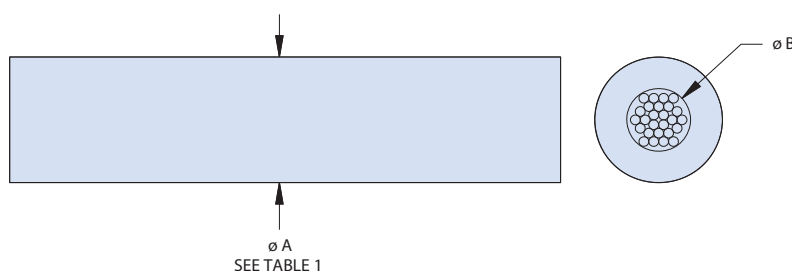
### 961-047, -65 TO 300°C, STRANDED COPPER WIRE



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 (-65°C to 300°C)				
Wire Size	See Table I				
Jacket Color	See Table II				

### NOTES

Bend Radius is 3X the O.D.  
Voltage rating is 1000 volts AC  
Insulation material is 300°C high temperature thermoplastic



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)

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

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

# EXTREME-TEMPERATURE TOLERANT ThermaRex Interconnect Solutions

## 961-087 Ultra-High Temperature Flexible Wire



ThermaRex™

### 961-087, -65 TO 450°C, CERAMIC-INSULATED, STRANDED COPPER WIRE

How To Order			
SAMPLE PART NUMBER		961-087	-N -20
Series / Basic Part No.	961-087 UHT Cable, Mica Tape, Ceramic Braid		
Conductor Material	N = Nickel/Copper (-65 to 450 °C)		
Wire Size	See table		

#### NOTES

Braid material shall be Nextel 312, 95% coverage.

Voltage rating is 1000 Volts DC.

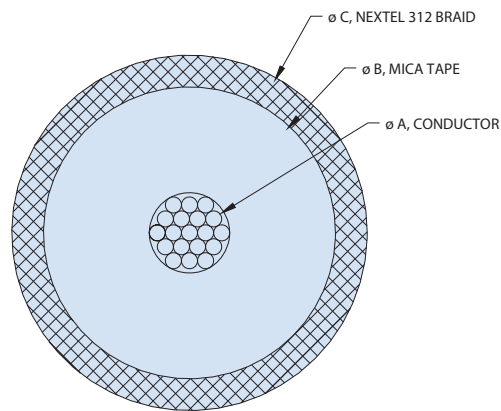


Table I					
AWG	Strand/Count/AWG	Weight LBS/1000' (NOM)	ø A	ø B	ø C
24	19/36	TBD	0.024 (0.61)	0.104 (2.64)	0.134 (3.40)
22	19/34	TBD	0.030 (0.76)	0.110 (2.79)	0.140 (3.56)
20	19/32	TBD	0.038 (0.97)	0.118 (3.00)	0.148 (3.76)
16	37/31	TBD	0.060 (1.52)	0.140 (3.56)	0.170 (4.32)
14	7x7/30	TBD	0.091 (2.31)	0.171 (4.34)	0.201 (5.11)
12	7x7/29	TBD	0.102 (2.59)	0.182 (4.62)	0.212 (5.38)
10	7x19/31	TBD	0.127 (3.23)	0.207 (5.26)	0.237 (6.02)
8	7x19/29	TBD	0.161 (4.09)	0.241 (6.12)	0.271 (6.88)
6	7x19/27	TBD	0.203 (5.16)	0.283 (7.19)	0.313 (7.95)

# EXTREME-TEMPERATURE TOLERANT ThermaRex Interconnect Solutions



## 961-112 Lightweight, Reduced Diameter Ultra-High Temperature Flexible Wire

### 961-112, -65 TO 450°C, CERAMIC-INSULATED, STRANDED COPPER WIRE

How To Order			
SAMPLE PART NUMBER		961-112	-N -20
Series / Basic Part No.	961-112 UHT Lightweight, Reduced Diameter Wire		
Conductor Material	N = Nickel/Copper (-65 to 450 °C)		
Wire Size	See table		

#### NOTES

Braid material shall be Nextel 312, 95% coverage.

Voltage rating is 1000 Volts DC.

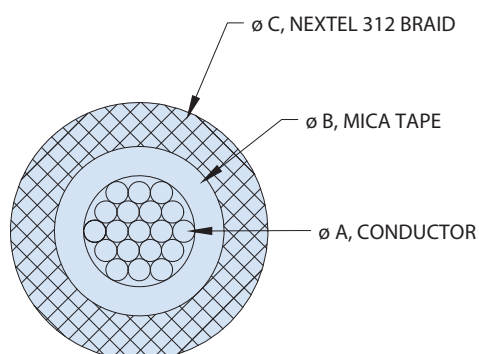
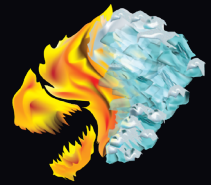


Table I					
AWG	Strand/Count/AWG	Weight LBS/1000' (NOM)	ø A	ø B	ø C
24	19/36	TBD	0.024 (0.61)	0.044 (1.12)	0.074 (1.88)
22	19/34	TBD	0.030 (0.76)	0.050 (1.27)	0.080 (2.03)
20	19/32	TBD	0.038 (0.97)	0.058 (1.47)	0.088 (2.24)
16	37/31	TBD	0.060 (1.52)	0.080 (2.03)	0.110 (2.79)
14	7x7/30	TBD	0.091 (2.31)	0.111 (2.82)	0.141 (3.58)
12	7x7/29	TBD	0.102 (2.59)	0.122 (3.10)	0.152 (3.86)
10	7x19/31	TBD	0.127 (3.23)	0.147 (3.73)	0.177 (4.50)
8	7x19/29	TBD	0.161 (4.09)	0.181 (4.60)	0.211 (5.36)
6	7x19/27	TBD	0.203 (5.16)	0.223 (5.66)	0.253 (6.43)

# EXTREME-TEMPERATURE TOLERANT ThermaRex Interconnect Solutions

## 961-097 Ultra-High Temperature Flexible Wire



ThermaRex™

### 961-097, -65°C TO 600°C, CERAMIC-INSULATED, STRANDED NICKEL WIRE

How To Order		
SAMPLE PART NUMBER	961-097	-20
Series / Basic Part No.	961-097 UHT Cable, -65°C to 600°C, Ni200 Core, Mica Tape, Ceramic Braid	
Wire Size	See table	

#### NOTES

Braid material shall be Nextel 312, 95% coverage.

Voltage rating is 1000 Volts DC.

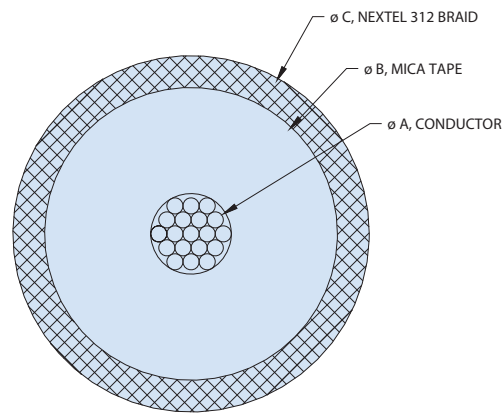


Table I					
AWG	Strand/ Count/AWG	Weight LBS/1000' (NOM)	ø A	ø B	ø C
24	19/36	TBD	0.025 (0.64)	0.105 (2.67)	0.135 (3.43)
22	19/34	TBD	0.032 (0.81)	0.112 (2.84)	0.142 (3.61)
20	7X6/32	TBD	0.041 (1.04)	0.121 (3.07)	0.151 (3.84)
16	7X15/36	TBD	0.065 (1.65)	0.145 (3.68)	0.175 (4.44)

# EXTREME-TEMPERATURE TOLERANT ThermaRex Interconnect Solutions



## 961-137 Lightweight, Reduced Diameter Ultra-High Temperature Flexible Wire

### 961-137, -65°C TO 600°C, CERAMIC-INSULATED, STRANDED NICKEL WIRE

How To Order		
SAMPLE PART NUMBER	961-137	-20
Series / Basic Part No.	961-137 UHT Cable, -65°C to 600°C, Ni200 Core, Mica Tape, Ceramic Braid	
Wire Size	See table	

#### NOTES

Braid material shall be Nextel 312, 95% coverage.

Voltage rating is 1000 Volts DC.

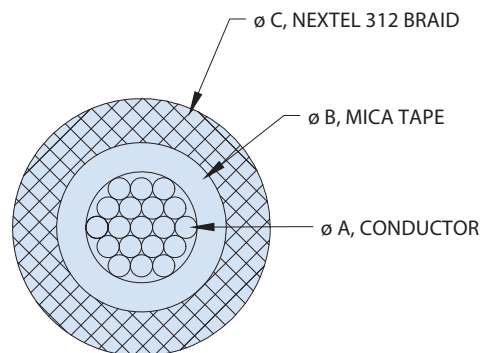


Table I					
AWG	Strand/ Count/AWG	Weight LBS/1000' (NOM)	ø A	ø B	ø C
24	19/36	TBD	0.025 (0.64)	0.041 (1.04)	0.071 (1.80)
22	19/34	TBD	0.032 (0.81)	0.048 (1.22)	0.078 (1.98)
20	7X6/36	TBD	0.041 (1.04)	0.057 (1.45)	0.087 (2.21)
18	7X9/36	TBD	0.050 (1.27)	0.066 (1.68)	0.096 (2.44)
16	7X15/36	TBD	0.065 (1.65)	0.081 (2.06)	0.111 (2.82)