

# Cost Value Analysis Mag Crane Cable Assembly

#### CHALLENGE

Faced with increasing costs due to failure and downtime, a leading steel producer was in critical need of a quality Mag Crane Assembly to withstand high temperatures for an extended period of time.

#### SOLUTION

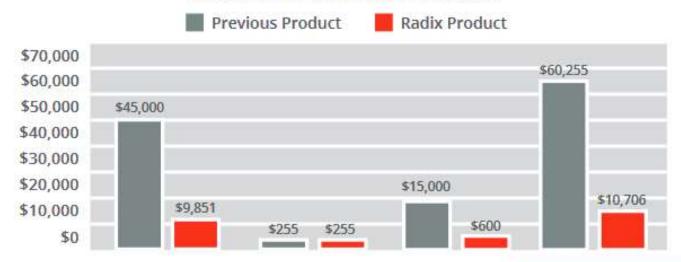
Radix Wire and Cable Engineered Solutions developed a high heat resistant product, using our Tempergard 2000 cable with a stainless steel overbraid and Oval Power connector.

#### RESULT

With the new Mag Crane Assembly installed at the steel facility, the frequency of replacements reduced greatly, resulting in significant cost and downtime savings.



## Radix vs. Previous Product



Application Variables	Previous Product	\$9,851 \$255		
Material Cost	\$45,000			
Freight Cost	\$255			
Labor Cost	\$15,000	\$600 <b>\$10,706</b>		
Total Cost	\$60,255			
Production Downtime	Previous Product	Radix Product		
# Used Annually	100	12		
Downtime to Replace Assembly	1.50	0.50		
Total Production Downtime	150.00	6.00		

kabeltec north america

Kabeltec
Radix's Distribution Partner
15819 Tuckerton Rd.
Houston, TX 77095

Overall Product Cost Savings = \$49.549

Increased Production
Hours = 144

"Average Downtime Costs for
Large-Scale Plants (\$/hr) = \$18,000

Total Downtime Savings
=
\$2,592,000

Local Contact:

J. H. Green Sales, Inc.,
248-543-1200

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# 450C/600V and 538C/600V

# TEMPERGARD 2000

#### HIGH-TEMPERATURE LEAD WIRE

## RATINGS / APPROVALS

450°C - 600 Volts - Continuous temperature rating under normal service conditions

450°C - 600 Volts - Temporary temperature rating for short periods

Maintains circuit integrity 2.5 hrs under ICEA T-29-520

210,000 BTU/hr Vertical Cable Tray Flame Test

RoHS Compliant

# CONSTRUCTION

#### Conductors

18 AWG - 2 AWG Stranded nickel-coated copper - 27% (Other conductor materials available)

#### Insulating System

Reinforced mica glass tape Fiberglass braid with high temperature finish Fire barrier tape wraps PTFE moisture and fluid barrier

## Outer Covering

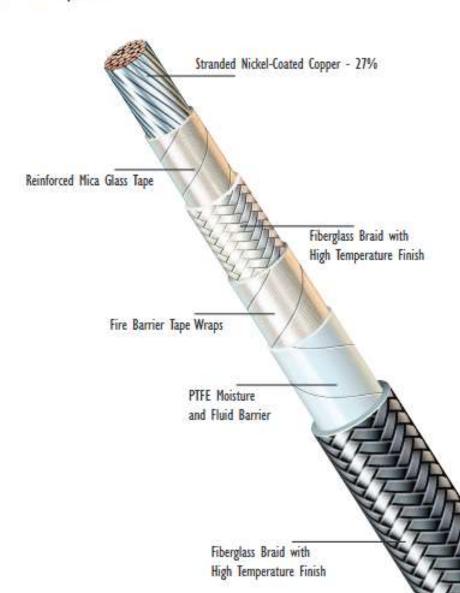
Braided fiberglass with high temperature finish

## Standard Color Coding

Black or Natural

# CHARACTERISTICS

- · Moisture, oil, fluid, and abrasion resistant
- · Composed of flame-impervious inorganic materials
- · Withstands mechanical abuse
- · Not recommended for outdoor use



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# **TEMPERGARD 2000**

#### HIGH-TEMPERATURE LEAD WIRE

# **SPECIFICATIONS**

# TEMPERGARD 2000 450C(538C)/600V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia.mm	Wgt. (lbs/Mft)	Wgt (kg/km)	Min. Bend Radius (in)	UL	CSA
BKT18C016	18	16	0.167	4.24	П	18.61	1.34	N/A	N/A
BKT16C026	16	26	0.179	4.55	15	23.43	1.43	N/A	N/A
BKT14C041	14	41	0.189	4.80	22	31.43	1.51	N/A	N/A
BKT12C065	12	65	0.213	5.41	31	40.14	1.70	N/A	N/A
BKT10C105	10	105	0.266	6.76	83	66.91	2.13	N/A	N/A
BKT08C133	8	133	0.316	8.03	79	95.19	2.53	N/A	N/A
BKT06C133	6	133	0.357	9.07	113	133.62	2.86	N/A	N/A
BKT04C133	4	133	0.408	10.36	167	183.51	3,26	N/A	N/A
BKT02C133	2	133	0.482	12.24	259	279.70	3.86	N/A	N/A

Standard conductor: Nickel Coated Copper - 27%

Consult factory for alternative conductor and stranding options.

#### All dimensions listed above are nominal

Information included in this catalog is intended as a guideline only. For applications that require tight tolerances, please contact the Radix factory for dimensional verification. Information herein is believed to be accurate as of publication date; however, if an error exists it is unintentional and Radix Wire & Cable is not responsible for any claim traceable to such error.



