

700C/600V to 1000C/300V

MCS FURNACE CABLE

HIGH-TEMPERATURE LEAD WIRE

RATINGS / APPROVALS

700°C – 600 Volt

1000°C – 300 Volt

Passes the IEEE-383 (modified) 210,000 BTU/hr Vertical Cable Tray Flame Test

Passes UL VW-I Vertical Flame Test

Passes CSA FTI Vertical Flame Test

CONSTRUCTION

Conductors

18 AWG – 4 AWG

Solid or stranded A nickel

Class K (18 AWG – 10 AWG) per ASTM B-174

Class H (8 AWG – 4 AWG) per ASTM B-173

Insulating Construction

High quality reinforced mica tape

Conductor Covering

Ceramic fiber braid coated with a high temperature finish

(Optional) Outer Braid

Stainless steel (Not recommended for applications exceeding 700°C)

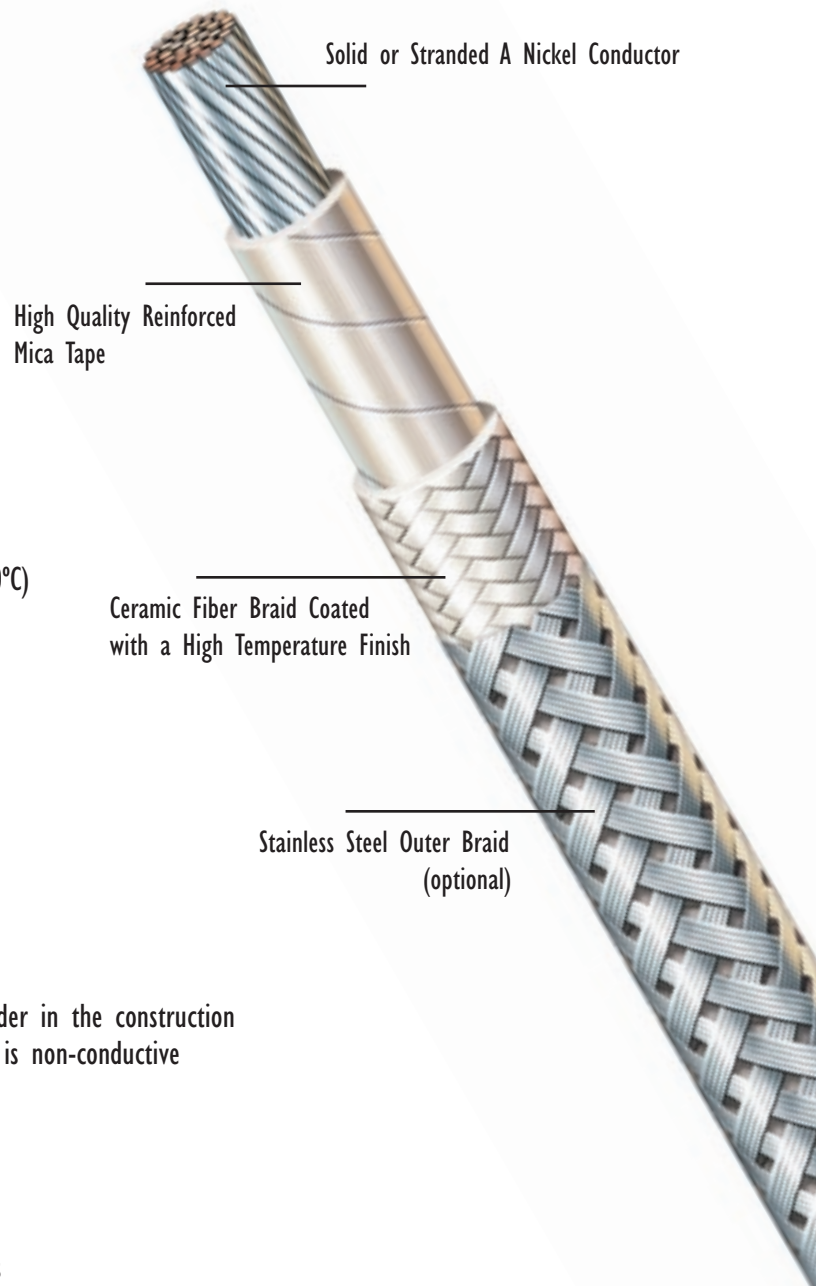
CHARACTERISTICS

- Superior high temperature and oxidation resistance in normal temperatures to 1000°C
- Fire resistant
- Very low smoke emission when burned at rated temperature
- Resistant to many chemicals
- Maintains circuit integrity even when exposed to conditions of high ambient temperature and flame
- Optional stainless steel braid provides mechanical protection
- If wire is subjected to very rapid rise in temperature the binder in the construction can ignite but will quickly extinguish. The resulting white ash is non-conductive

APPLICATION

- For use in non-flexing applications.
- Wiring for ovens, kilns, and furnaces
- Where the normal installation environment includes continuous operating temperatures up to 1000°C and intermittent temperatures approaching 1200°C
- Not recommended for outdoor use

**ISO 9001:2000
CERTIFIED**



Radix™

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SPECIFICATIONS

MCS FURNACE CABLE HIGH-TEMPERATURE LEAD WIRE

MCS FURNACE CABLE 700C/600V to 1000C/300V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km
W/OUT STAINLESS STEEL SHIELD						
BTC18N016-0000-Z3000	18	16	0.156	3.96	14.52	21.61
BTC16N026-0000-Z3000	16	26	0.169	4.29	18.95	28.20
BTC14N041-0000-Z3000	14	41	0.182	4.62	24.97	37.16
BTC12N065-0000-Z3000	12	65	0.203	5.16	34.35	51.11
BTC10N105-0000-Z3000	10	105	0.230	5.84	50.15	74.62
BTC08N168-0000-Z3000	8	168	0.289	7.34	78.11	116.23
STAINLESS STEEL SHEILD (Not recommended for applications exceeding 700°C)						
BTC18N016-AR00-Z3000	18	16	0.181	4.60	26.64	39.64
BTC16N026-AR00-Z3000	16	26	0.194	4.93	31.57	46.98
BTC14N041-AR00-Z3000	14	41	0.208	5.28	38.1	56.69
BTC12N065-AR00-Z3000	12	65	0.228	5.79	49.49	73.64
BTC10N105-AR00-Z3000	10	105	0.255	6.48	68.03	101.23
BTC08N168-AR00-Z3000	8	168	0.314	7.98	99.25	147.68

Standard conductor: A nickel

Consult factory for alternate conductor and stranding options. Multi-conductor available on the data page.

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All dimensions listed above are nominal.

Compliance: UL Listed File No. E22244 • CSA Certified File No. LL13427 or LL80670

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 Company, Inc. is not responsible for any claim traceable to such error.



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