MCS FURNACE CABLE

HIGH-TEMPERATURE LEAD WIRE

700C/600V and 1000C/300V

RATINGS / APPROVALS

700°C - 600 Volt (Optional SS Braid)
1000°C - 300 Volt
Passes the IEEE-383 (modified) 210,000 BTU/hr Vertical Cable Tray Flame Test
Passes UL VW-1 Vertical Flame Test
Passes CSA FT1 Vertical Flame Test
RoHS Compliant

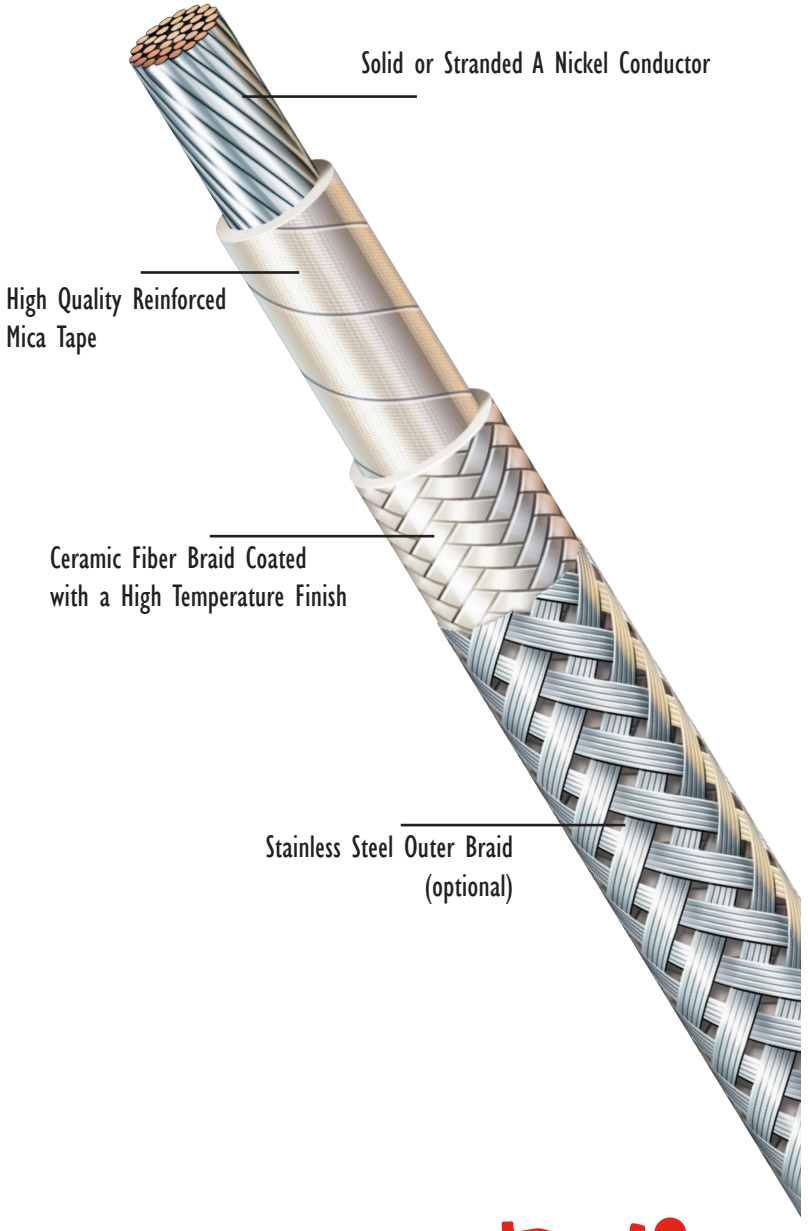
CONSTRUCTION

Conductors
18 AWG - 8 AWG
Stranded A nickel

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 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

Radix Wire
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SPECIFICATIONS

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-Z01	18	16	0.156	3.96	14.52	21.61
BTC16N026-Z01	16	26	0.169	4.29	18.95	28.20
BTC14N041-Z01	14	41	0.182	4.62	24.97	37.16
BTC12N065-Z01	12	65	0.203	5.16	34.35	51.11
BTC10N105-Z01	10	105	0.230	5.84	50.15	74.62
BTC08N168-Z02	8	168	0.289	7.34	78.11	116.23
STAINLESS STEEL SHIELD (Not recommended for applications exceeing 700˚C)						
BTC18N016-Z02	18	16	0.181	4.60	26.64	39.64
BTC16N026-Z02	16	26	0.194	4.93	31.57	46.98
BTC14N041-Z02	14	41	0.208	5.28	38.1	56.69
BTC12N065-Z02	12	65	0.228	5.79	49.49	73.64
BTC10N105-Z02	10	105	0.255	6.48	68.03	101.23
BTC08N168-Z01	8	168	0.314	7.98	99.25	147.68

Standard conductor: A nickel

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

All dimensions listed above are nominal

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