MCS FURNACE CABLE
HIGH-TEMPERATURE LEAD WIRE

700°C/600V and 1000°C/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
Solid or Stranded A Nickel

Insulating System
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

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### SPECIFICATIONS

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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Awg. Size</th>
<th># Strands</th>
<th>Outer Dia. inches</th>
<th>Outer Dia. mm</th>
<th>Wgt - lbs per 1000 ft</th>
<th>Wgt - kg per km</th>
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**WITHOUT STAINLESS STEEL SHIELD**

**STAINLESS STEEL SHIELD** *(Not recommended for applications exceeding 700°C)*

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Standard conductor: A nickel

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

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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.

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