

Model Number <b>509</b>	<b>HIGH TEMPERATURE, TWISTED, SHIELDED, FEP CABLE</b>	Revision: NR ECN #: 47415
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	<u>ENGLISH</u>	<u>SI</u>	
<b>Performance</b>			
Number of Conductors	2	2	
Cable Style	Multi Conductor - Shielded	Multi Conductor - Shielded	
Cable Configuration	Twisted Pair	Twisted Pair	
<b>Environmental</b>			
Temperature Range	-90 to +392 °F	-70 to +200 °C	
<b>Electrical</b>			
Impedance	38.3 Ohm	38.3 Ohm	[1]
Capacitance(conductor to conductor @ 70 °F (21 °C))	38.9 pF/ft	127.6 pF/m	[1]
Capacitance(conductor to shield / drain @ 70 °F (21 °C))	70.0 pF/ft	229.7 pF/m	[1]
<b>Physical</b>			
Cable Jacket Diameter(+/-0.012 in)	0.144 in	3.66 mm	[1]
Cable Jacket Material	FEP	FEP	
Cable Jacket Color	Red	Red	
Conductor Style	Stranded - 7 Strands 26 AWG	Stranded - 7 Strands 26 AWG	
Conductor Material	Tin Plated Copper	Tin Plated Copper	
Conductor Diameter(18 AWG)	0.043 in	1.092 mm	[1]
Insulation Material Over Conductor(s)	FEP	FEP	
Shield Type Over Bundle	Foil	Foil	
Shield Material Over Bundle	Aluminum / Mylar	Aluminum / Mylar	
Drain Wire Material	Tin Plated Copper	Tin Plated Copper	
Drain Wire Diameter(20 AWG)	0.034 in	0.864 mm	[1]
Bend Radius(minimum)	2 in	50.8 mm	
Weight	0.448 oz/ft	41.67 gm/m	[1]

**OPTIONAL VERSIONS**

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

**NOTES:**  
 [1] Typical.  
 [2] See PCB Declaration of Conformance PS173 for details.

Entered: LK	Engineer: GD	Sales: MC	Approved: BAM	Spec Number:
Date: 11/8/2017	Date: 11/8/2017	Date: 11/8/2017	Date: 11/8/2017	<b>68239</b>



*All specifications are at room temperature unless otherwise specified.  
 In the interest of constant product improvement, we reserve the right to change specifications without notice.  
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