



Model 509

PTFE cable, 2-conductor twisted pair with/drain, shielded

Installation and Operating Manual

**For assistance with the operation of this product,
contact the PCB Piezotronics, Inc.**

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Model Number 509	HIGH TEMPERATURE, TWISTED, SHIELDED, FEP CABLE				Revision: NR ECN #: 47415	
Performance	<u>ENGLISH</u>	<u>SI</u>	OPTIONAL VERSIONS			
Number of Conductors	2	2	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.			
Cable Style	Multi Conductor - Shielded	Multi Conductor - Shielded				
Cable Configuration	Twisted Pair	Twisted Pair				
Environmental			NOTES: [1] Typical. [2] See PCB Declaration of Conformance PS173 for details.			
Temperature Range	-90 to +392 °F	-70 to +200 °C				
Electrical						
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]			
Physical						
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]			
 [2]						
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. ICP® is a registered trademark of PCB Group, Inc.			IMI Sensors 3425 Walden Depew, NY 14043 UNITED STATES Phone: 800-959-4464 Fax: 716-684-3823 E-Mail: imi@pcb.com Web site: http://www.imi-sensors.com			