

- Standard Voltage to 250 V AC/400 V, 5 A
- Cable Assemblies
- Calibration Port Solutions
- Cable Connectors & Connector Blocks
- PCB Connectors
- Guaranteed Compatibility
- 9-Pin High Voltage Solutions are also Available
See Data Sheet 90-003HVD



Simple Connection

Pickering connection solutions provide a simple way of connecting to a user's device under test or remote connection. The products include cable assemblies, cable connectors, connector blocks and pcb connectors. The 9-Pin D-type connector is also used as the Calibration Port Connector for precision resistor modules.

Cable Assemblies

Cable assemblies are offered in connector to connector, and connector to unterminated versions. There are 3 termination options for the unterminated cables - ferrules, tinned copper or simple cut end.

Connector Blocks

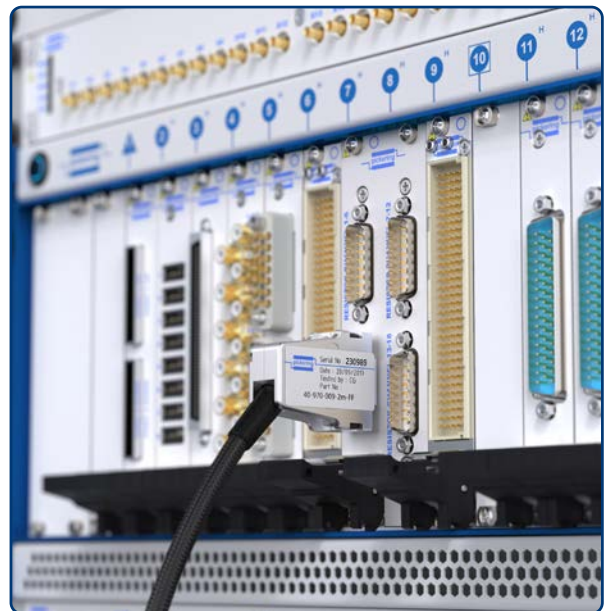
Connector Blocks convert the 9-pin D-type connections to an array of screw terminals. The customer can then interface to other devices using his own wiring.



Custom Design Needs



Pickering Interfaces can manufacture custom connector accessories to suit any application. If you do not see what you need in this data sheet contact your Pickering Interfaces sales office with information on your requirements or consider using our free online Cable Design Tool.

Using our Cable Design Tool, you can graphically design your own custom cable assembly. Once completed and submitted, our engineers will generate a quote for your cable requirements. See pickeringtest.com/cdt







Examples of Pickering PXI Products using 9-Pin D-type Connectors

Standard Voltage - Cable Assemblies

Description		End 1	End 2		Cable Length	Product Order Code and Part Number	Data Sheet Page
		Gender & Cable Exit	Gender & Cable Exit	Options			
	Cable Assy, 9-Pin D-Type, 5 A	Male, 45° Towards Pin 1	Female, 45° Away from Pin 1	-	0.5 m 1 m 2 m	40-970-009-0.5m-MF 40-970-009-1m-MF 40-970-009-2m-MF	5
		Female, 45° Away from Pin 1	Female, 45° Away from Pin 1	-	0.5 m 1 m 2 m	40-970-009-0.5m-FF 40-970-009-1m-FF 40-970-009-2m-FF	6
	Cable Assy, 9-Pin D-Type to Underterminated, 5 A	Female, 45° Away from Pin 1	NA	Ferrules	0.5 m 1 m 2 m	40-972-009-0.5m-FU 40-972-009-1m-FU 40-972-009-2m-FU	7
				Tinned End	0.5 m 1 m 2 m	A009DF4-T-0A050 A009DF4-T-0A100 A009DF4-T-0A200	
				Cut End	0.5 m 1 m 2 m	A009DF4-C-0A050 A009DF4-C-0A100 A009DF4-C-0A200	



Note: Custom lengths by quotation

Standard Voltage - Female Connector Blocks/Connectors


Description		Gender & Cable Exit	Type	Product Order Code and Part Number	Page
	Connector Block, 9-Pin D-Type, 5 A, Screw Terminal	Female, Rear	With Backshell	40-965-009-F	8
			Without Backshell	92-965-009-F	
	Cable Connector 9-Pin D-Type, 5 A, Solder Bucket	Female, 45° Options	With Backshell	40-960-009-F	9
			Without Backshell	92-960-009-F	
	PCB Connector 9-Pin D-Type, 5 A	Female	Right Angle PCB Mount	40-963-009-RF	10
			Straight PCB Mount	40-963-009-SF	11

Please click on the page number to navigate to the data sheet page required. Return to this page via the **C** button.

Standard Voltage - Male PCB Connectors

Description		Gender & Cable Exit	Type	Product Order Code and Part Number	Page
	PCB Connector 9-Pin D-Type, 5 A	Male	Right Angle PCB Mount	40-963-009-RM	12
			Straight PCB Mount	40-963-009-SM	13



Standard Voltage - Calibration Cables

Description	End 1		End 2	Cable Length	Product Order Code and Part Number	Data Sheet Page
	Number of Connectors	Gender & Cable Exit	Gender & Cable Exit			
 Cable Assy, 9-Pin D-Type Connector(s), Female to 4 x 4 mm DMM Bayonet Plug	1	Female, 45° Away from Pin 1	4 x Male, Rear	1 m	40-975-009-SL1	14
	2			1.3 m	40-975-009-SL2	
	3			1.6 m	40-975-009-SL3	

Additional Accessories


Although the items below do not directly mate with Pickering Interfaces products, customers may find them useful in the development of their own connection solutions.

Standard Voltage - Cable Assemblies

Description		End 1	End 2		Cable Length	Product Order Code and Part Number	Data Sheet Page
		Gender & Cable Exit	Gender & Cable Exit	Options			
	Cable Assy, 9-Pin D-Type, 5 A	Male, 45° Towards Pin 1	Male, 45° Towards Pin 1	-	0.5 m 1 m 2 m	40-970-009-0.5m-MM 40-970-009-1m-MM 40-970-009-2m-MM	16
	Cable Assy, 9-Pin D-Type to Unterminated, 5 A	Male, 45° Towards Pin 1	NA	Ferrules	0.5 m 1 m 2 m	40-972-009-0.5m-MU 40-972-009-1m-MU 40-972-009-2m-MU	17
				Tinned End	0.5 m 1 m 2 m	A009DM5-T-0A050 A009DM5-T-0A100 A009DM5-T-0A200	
				Cut End	0.5 m 1 m 2 m	A009DM5-C-0A050 A009DM5-C-0A100 A009DM5-C-0A200	

Note: Custom lengths by quotation

Standard Voltage - Male Breakouts/PCB Connectors

Description	Gender & Cable Exit	Type	Product Order Code and Part Number	Page
	Male, 45° Options	With Backshell	40-960-009-M	18
		Without Backshell	92-960-009-M	

Custom Termination

Customization Possibilities 19

- High Specification, Highly Flexible Cable
- Fully Screened Cable Construction with Strain Relief
- 45 Degree Cable Exit

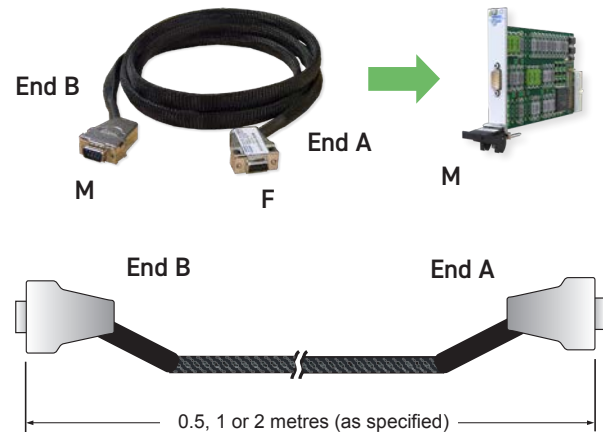
Technical Specification

Connector Type (End A):	9-Pin D-Subminiature
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	9-Pin D-Subminiature
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Maximum Current	5 A
Maximum Voltage	250 VAC/400 VDC
Insulation Resistance	1000 MOhm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20 mOhm
Cable Exit:	
Female Connectors	45° (Away from Pin 1)
Male Connectors	45° (Towards Pin 1)
Overall Size (Approx)	H32 x W15 x D46 mm
Cable Type:	Individual wires, screened & sleeved
Conductor: Material	Tinned copper wire
Strands	19/0.18 (0.4 mm ² , 21AWG)
Resistance	0.041Ω/m
Insulation	PFA
Outer Sleeve	Polyester
Screened Construction	Yes (Cable screen connected to backshells)
Additional Braided Sleeve	Yes
Cable O/D	8 mm
Minimum Bend Radius	25 mm
Door Closure Allowance	50 mm (see diagram)

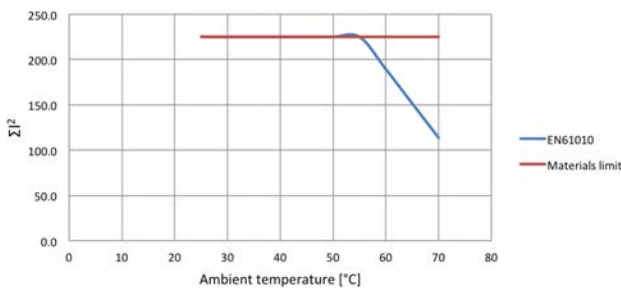


9-Pin D-Type Cable Assembly

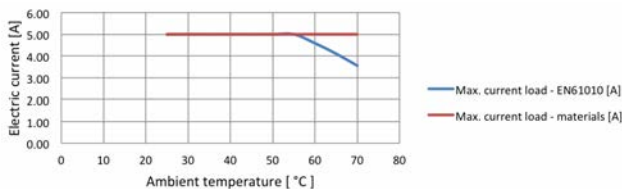
Product Compatibility



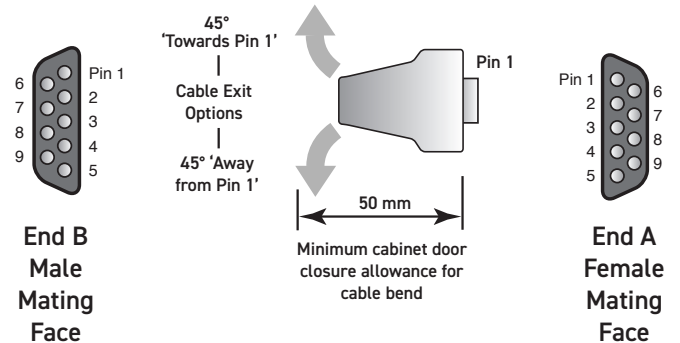
Characteristic Plots for 40-970-009-1m-MF



The graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.



The graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.



Product Order Codes

9-Pin D-Type Cable Assy, 5 A, Male to Female,	
0.5 m Long	40-970-009-0.5m-MF
1.0 m Long	40-970-009-1m-MF
2.0 m Long	40-970-009-2m-MF

Note: Other cable lengths can be supplied.

- High Specification, Highly Flexible Cable
- Fully Screened Cable Construction with Strain Relief
- 45 Degree Cable Exit

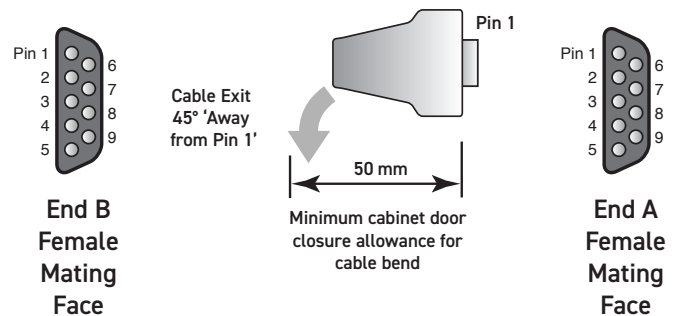
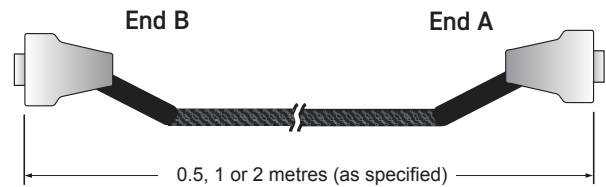
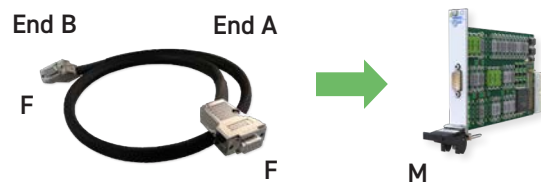
Technical Specification

Connector Type (End A):	9-Pin D-Subminiature
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	9-Pin D-Subminiature
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Maximum Current	5 A
Maximum Voltage	250 VAC/400 VDC
Insulation Resistance	1000 MOhm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20 mOhm
Cable Exit	45° (Away from Pin 1)
Overall Size (Approx)	H32 x W15 x D46 mm
Cable Type:	Individual wires, screened & sleeved
Conductor: Material	Tinned copper wire
Strands	19/0.18 (0.4 mm ² , 21AWG)
Resistance	0.041 Ω/m
Insulation	PFA
Outer Sleeve	Polyester
Screened Construction	Yes (Cable screen connected to backshells)
Additional Braided Sleeve	Yes
Cable O/D	8 mm
Minimum Bend Radius	25 mm
Door Closure Allowance	50 mm (see diagram)

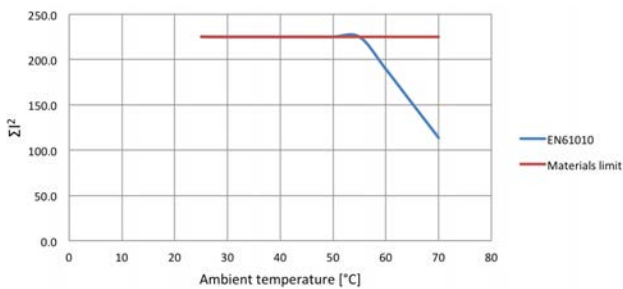


9-Pin D-Type Cable Assembly

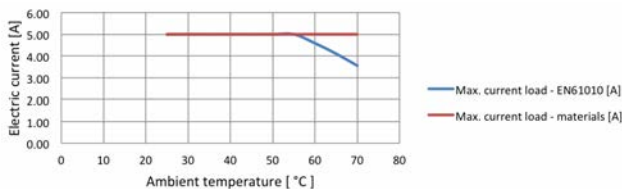
Product Compatibility



Characteristic Plots for 40-970-009-1m-FF



The graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.



The graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

9-Pin D-Type Cable Assy, 5 A, Female to Female, 0.5 m Long	40-970-009-0.5m-FF
1.0 m Long	40-970-009-1m-FF
2.0 m Long	40-970-009-2m-FF

Note: Other cable lengths can be supplied.

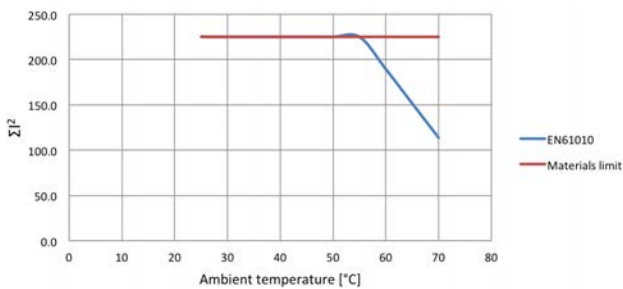
- High Specification, Highly Flexible Cable
- Fully Screened Cable Construction with Strain Relief
- Fully Coded Markers to Ensure Easy Connection

Technical Specification

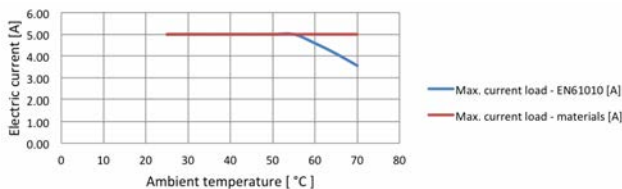
Connector Type (End A):	9-Pin D-Subminiature
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Unterminated End (End B):	
Free Wire Length	130 mm nominal
Individual Wire Labelling	To connector pins
	A white/black screen pigtail is also included
Wire End Options	Ferrules, Tinned, Cut End
Maximum Current	5 A
Maximum Voltage	250 VAC/400 VDC
Insulation Resistance	1000 MOhm
Connector:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20 mOhm
Cable Exit	45° (Away from Pin 1)
Overall Size (Approx)	H32 x W15 x D46 mm
Cable Type:	Individual wires, screened & sleeved
Conductor: Material	Tinned copper wire
Strands	19/0.18 (0.4 mm ² , 21AWG)
Resistance	0.041 Ω/m
Insulation	PFA
Outer Sleeve	Polyester
Screened Construction	Yes (Cable screen connected to backshell)
Additional Braided Sleeve	Yes
Cable O/D	8 mm
Minimum Bend Radius	25 mm
Door Closure Allowance	50 mm (see diagram)

Note: When using this product please ensure appropriate electrical safety.

Characteristic Plots for 40-972-009-1m-FU



The graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

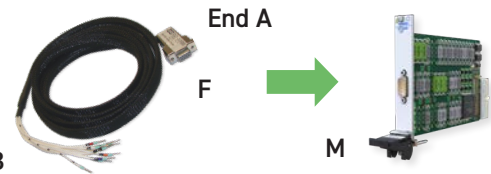


The graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.



9-Pin D-Type Unterminated Cable Assembly

Product Compatibility



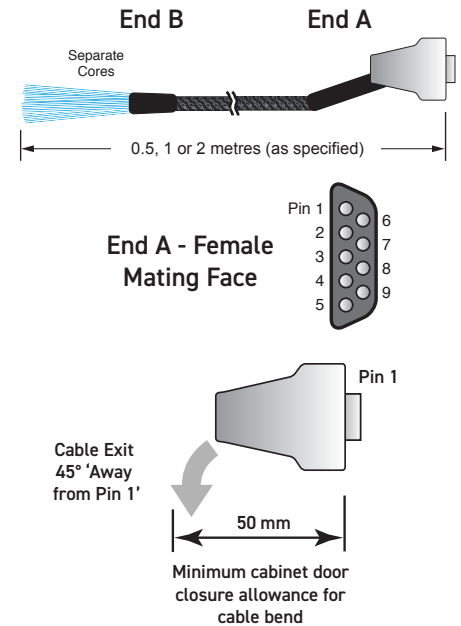
End B Options

Ferrules
Dia as Sleeve
7 mm Nom

Soldered or Crimped Construction

Tinned End
Dia as Tinned Wire
6 mm Nom

Cut End
Simple Cut



Product Order Codes

- 9-Pin D-Type Cable Assy, 5 A, Cable Exit Away from Pin 1, Ferrules,
 Female to Unterminated, 0.5 m Long [40-972-009-0.5m-FU](#)
 Female to Unterminated, 1.0 m Long [40-972-009-1m-FU](#)
 Female to Unterminated, 2.0 m Long [40-972-009-2m-FU](#)

Part numbers for other versions:

End B: T = Tinned End C = Cut End	A009DF4-*0A***	Cable Length: 050 = 0.5 m 100 = 1.0 m 200 = 2.0 m
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Note: Other cable lengths can be supplied.

- Connector & PCB Only or Connector, PCB & Backshell
- Male Screwlocks
- Easy to Use Rising Cage Screw Terminals

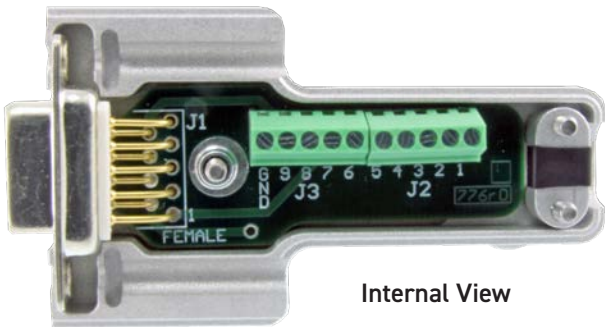
Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

Suitable for use on the front of modules this connector block provides a simple method of connecting to 9-Pin D-Type connectors. The screw terminals use a rising cage clamp mechanism to minimize risk of copper strand breakage. PTFE cables are recommended for use with this connector block to maximise copper cross-sectional area and insulation properties. Connector blocks have higher losses than a cable connection and the breakdown voltage is controlled by clearances to the metal shell. The metal shell includes an internal insulation barrier under the carrier board.

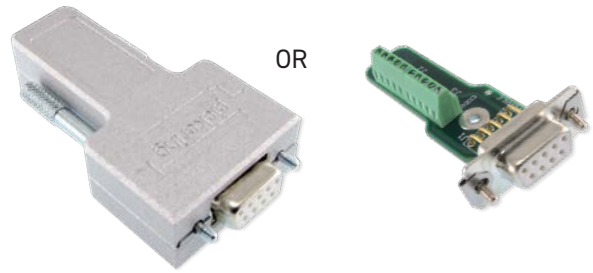
When the product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.

Technical Specification

Connector Type:	9-Pin D-Subminiature
Gender	Female
Securing Method:	
Product with Backshell	4-40 UNC screwlocks, male
Product without Backshell	4-40 UNC screwlocks, male or female
Wire Connection	Rising cage screw terminals A screen (GND) connection is provided
Connector Block Ratings:	
Maximum Current	5 A
Maximum Voltage	200 VDC
Cable Exit	Rear - 10 x 8.8 mm
Overall Size (Approx)	H37.5 x W16.5 x D71 mm
9-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20 mOhm
Screw Terminals:	
Maximum Wire Size	20AWG
Recommended Insulation	PTFE
Additional Cable Clamp	Yes (in backshell)

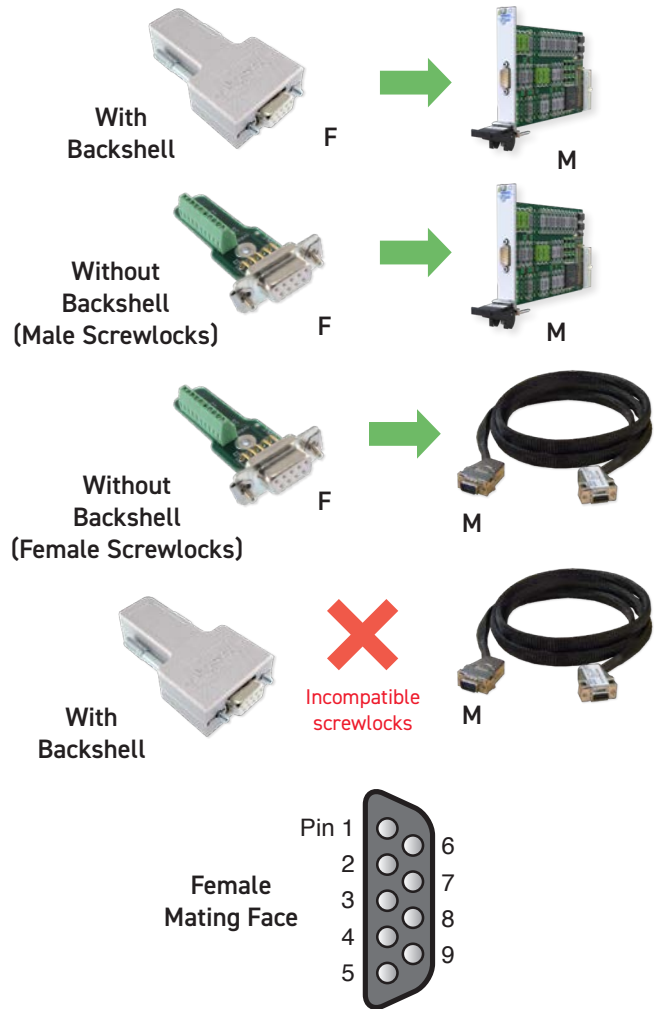


Internal View



9-Pin D-Type Connector Block

Product Compatibility



Product Order Codes

- 9-Pin D-Type Shielded Connector Block, 5 A, Screw Terminal, With Backshell, Female [40-965-009-F](#)
- Without Backshell, Female [92-965-009-F](#)

Note: Male and female screwlocks are provided for connector blocks without a backshell.

- Connector only or Connector and Backshell
- Cable Clamp in Backshell
- Soldered Cable Termination

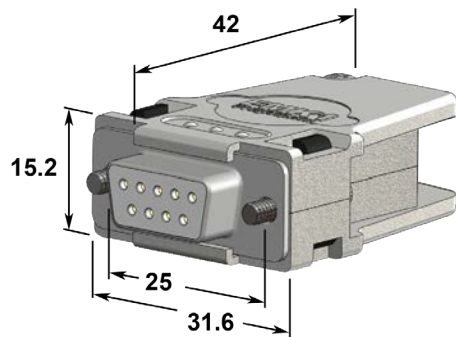
This accessory is designed to allow users to directly terminate with soldered connections to the connector.

Connector and shell are supplied separately to allow the user to determine the direction of the cable exit.

When the product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.

Technical Specification

Connector Type:	9-Pin D-Subminiature
Gender	Female
Securing Method:	
Product with Backshell	4-40 UNC screwlocks, male
Product without Backshell	4-40 UNC screwlocks, male
Wire Connection	Solder bucket. A backshell fixing is also provided for a cable screen
Connector Ratings:	
Maximum Current	5 A
Maximum Voltage	250 VAC
Cable Exit:	45°
Cable Exit Size	15 mm dia
Overall Size (Approx)	H32 x W15 x D46 mm
9-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20 mOhm
Wire Connection:	
Maximum Wire Size	20AWG
Recommended Insulation	PFA
Additional Cable Clamp	Yes (in backshell)

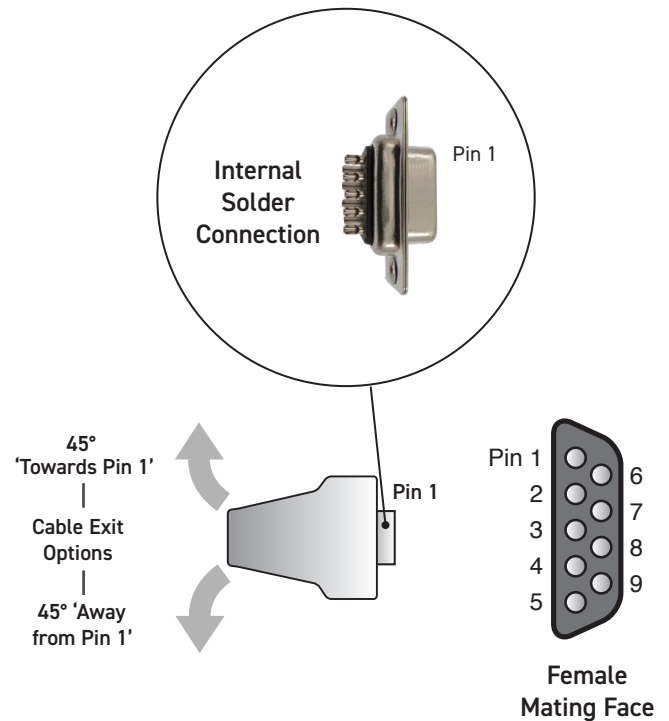
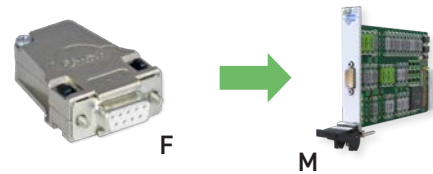


Connector Dimensions



9-Pin D-Type Cable Connector with Backshell

Product Compatibility



Product Order Codes

9-Pin D-Type Connector, 5 A, Solder Bucket, With Backshell, Female	40-960-009-F
Without Backshell, Female	92-960-009-F

- Right Angle PCB Mount
- Ideal for User Created Termination Solutions

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this data sheet. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.

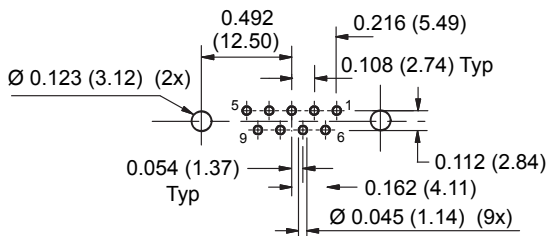
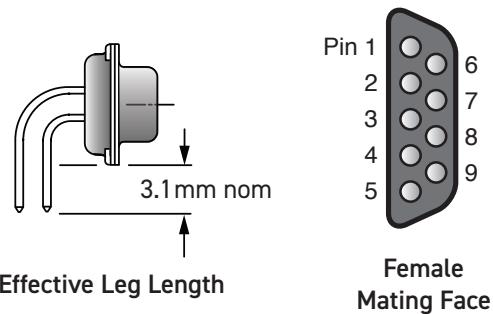
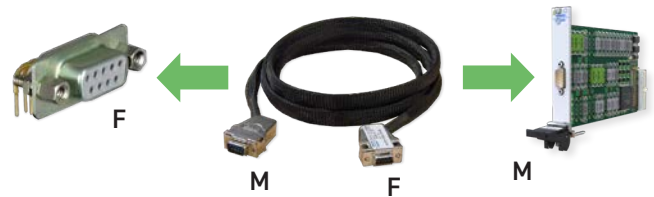


9-Pin D-Type PCB Connector

Technical Specification

Connector Type:	9-Pin D-Subminiature
Gender	Female
Securing Method	4-40 UNC screwlocks, female
PCB Mounting	Right angle PCB mount, solder
Connector Ratings:	
Maximum Current	5 A each pin
Maximum Voltage	250 VAC
9-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20 mOhm
PCB Legs:	
Effective Leg Length	3.1mm nom (See diagram)

Product Compatibility



Mating Face of Connector this side of footprint

PCB Footprint of 9-Pin Right Angle Female Connector
(Connector Side - Not to Scale)

Product Order Codes

9-Pin D-Type Connector, 5 A, Right Angle PCB Mount, Female
[40-963-009-RF](#)

- Straight PCB Mount
- Ideal for User Created Termination Solutions

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this data sheet. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.

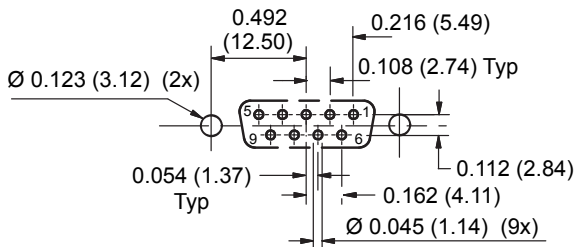
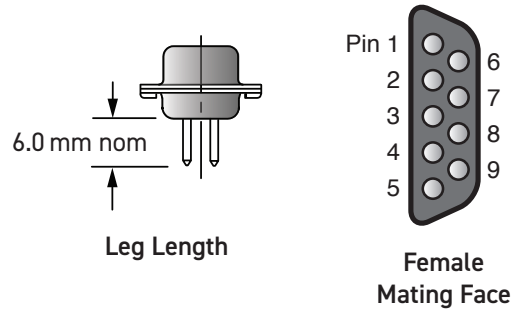
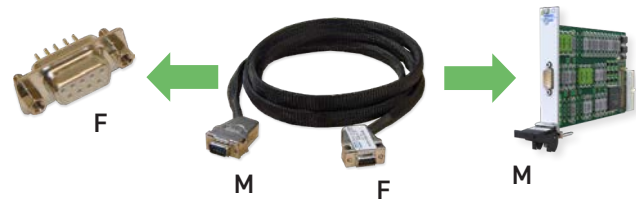


9-Pin D-Type PCB Connector

Technical Specification

Connector Type:	9-Pin D-Subminiature
Gender	Female
Securing Method	4-40 UNC screwlocks, female
PCB Mounting	Straight PCB mount, solder
Connector Ratings:	
Maximum Current	5 A each pin
Maximum Voltage	250 VAC
9-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20 mOhm
PCB Legs:	
Leg Length	6.0 mm nom (See diagram)

Product Compatibility



PCB Footprint of 9-Pin Straight Female Connector
(Connector Side - Not to Scale)

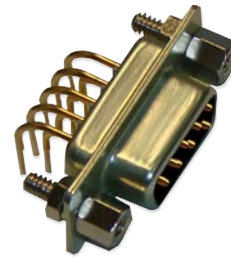
Product Order Codes

9-Pin D-Type Connector, 5 A, Straight PCB Mount,
Female [40-963-009-SF](#)

- Right Angle PCB Mount
- Ideal for User Created Termination Solutions

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this data sheet. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.

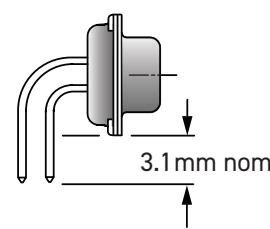
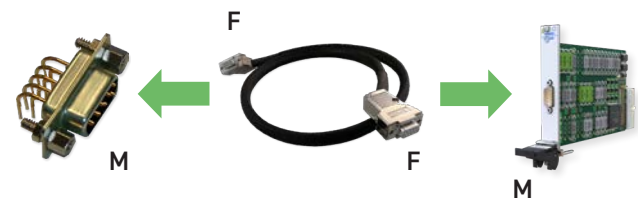


9-Pin D-Type PCB Connector

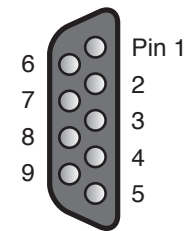
Technical Specification

Connector Type:	9-Pin D-Subminiature
Gender	Male
Securing Method	4-40 UNC screwlocks, female
PCB Mounting	Right angle PCB mount, solder
Connector Ratings:	
Maximum Current	5 A each pin
Maximum Voltage	250 VAC
9-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20 mOhm
PCB Legs:	
Effective Leg Length	3.1 mm nom (See diagram)

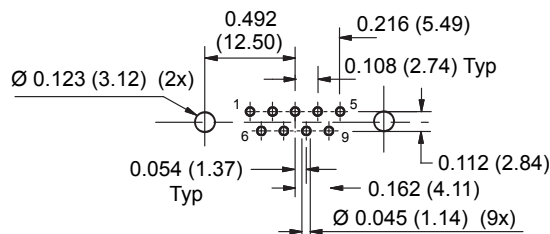
Product Compatibility



Effective Leg Length



Male Mating Face



Mating Face of Connector this side of footprint

PCB Footprint of 9-Pin Right Angle Male Connector
(Connector Side - Not to Scale)

Product Order Codes

9-Pin D-Type Connector, 5 A, Right Angle PCB Mount,
Male [40-963-009-RM](#)

- Straight PCB Mount
- Ideal for User Created Termination Solutions

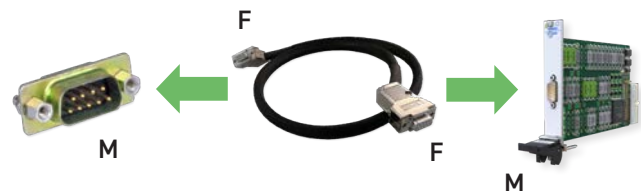
This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this data sheet. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



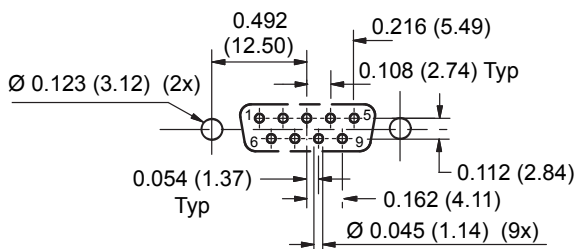
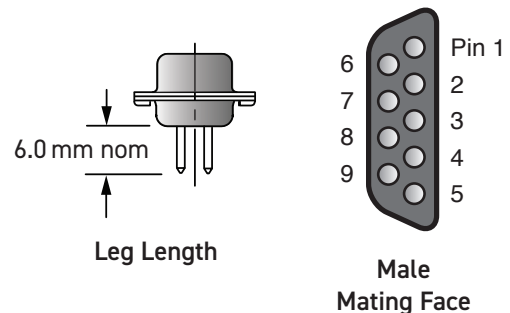
9-Pin D-Type PCB Connector

Product Compatibility



Technical Specification

Connector Type:	9-Pin D-Subminiature
Gender	Male
Securing Method	4-40 UNC screwlocks, female
PCB Mounting	Straight PCB mount, solder
Connector Ratings:	
Maximum Current	5 A each pin
Maximum Voltage	250 VAC
9-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20 mOhm
PCB Legs:	
Leg Length	6.0 mm nom (See diagram)



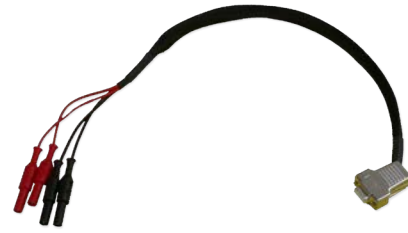
PCB Footprint of 9-Pin Straight Male Connector
(Connector Side - Not to Scale)

Product Order Codes

9-Pin D-Type Connector, 5 A, Straight PCB Mount, Male 40-963-009-SM

- High Specification Cable
- Stranded Hi-Flex PVC Cable with Braided Sleeving
- Fully Screened Cable Construction
- Strain Relief

The cable assembly is specifically designed to connect to the 9-Pin D-Type calibration port located on the front panel of Pickering Interfaces Module Part Numbers 40-260, 40-261, 40-262, 40-263 and 40-265. Three product types are available.

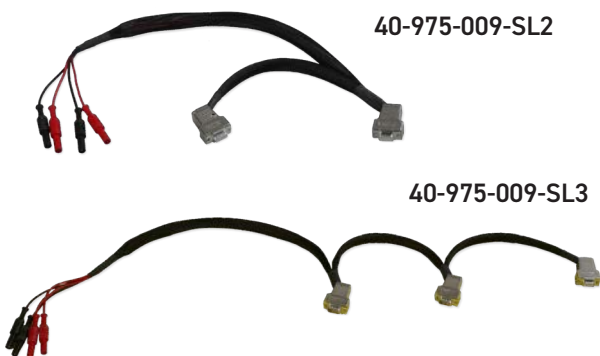
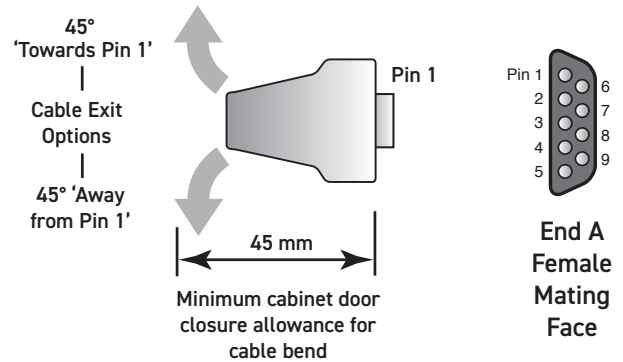
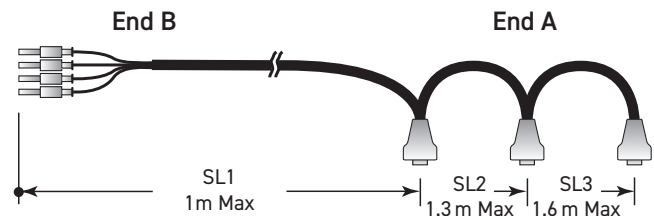
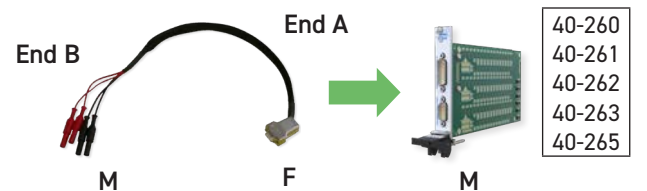


9-Pin D-Type Calibration Port Cable (40-975-009-SL1)
Other versions are detailed below

Technical Specification

Connector Type (End A):	9-Pin D-Subminiature
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Contact Material	Gold plated copper alloy
Contact Resistance	<20 mOhm
Cable Exit	45° (Away from Pin 1)
Overall Size (Approx)	H36 x W15 x D46 mm
Connector Type (End B):	4 x 4 mm DMM Bayonet Plug
Gender	Male
Securing Method	Push fit
Contact Material	Gold plated copper alloy
Contact Resistance	<20 mOhm
Cable Exit	Rear
Overall Size (Approx)	50 x 8.5 mm dia
Maximum Current	5 A
Maximum Voltage	750 V
Insulation Resistance	1000 MOhm
Cable Type:	Stranded Hi-Flex PVC
Conductor: Material	Tinned copper wire
Strands	259/0.07 (1.0 mm ² , 17AWG)
Resistance	-
Insulation	PVC
Outer Sleeve	Polyester
Screened Construction	No
Additional Braided Sleeve	Yes
Cable O/D	8 mm
Minimum Bend Radius	10 mm
Door Closure Allowance	45 mm (see diagram)

Product Compatibility



Product Order Codes

- | | |
|---------------------------------------------------------------------|--------------------------------|
| 1 x 9-Pin D-Type Connector, Female, to
4 x 4 mm DMM Bayonet Plug | 40-975-009-SL1 |
| 2 x 9-Pin D-Type Connector, Female, to
4 x 4 mm DMM Bayonet Plug | 40-975-009-SL2 |
| 3 x 9-Pin D-Type Connector, Female, to
4 x 4 mm DMM Bayonet Plug | 40-975-009-SL3 |

Note: Other cable lengths can be supplied.

Additional Connection Accessories

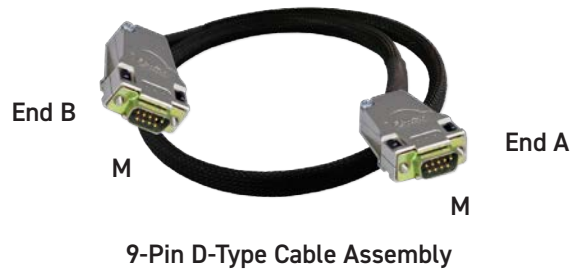
Although these items do not directly mate with Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

- High Specification, Highly Flexible Cable
- Fully Screened Cable Construction with Strain Relief
- 45 Degree Cable Exit

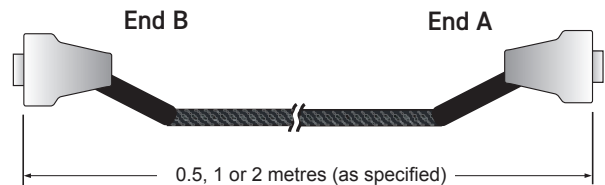
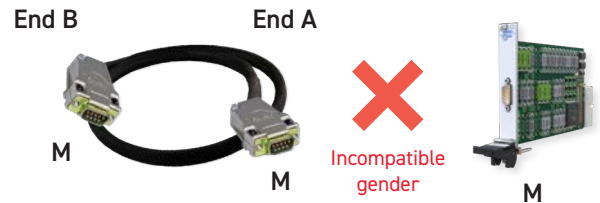
Technical Specification

Connector Type (End A):	9-Pin D-Subminiature
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	9-Pin D-Subminiature
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Maximum Current	5 A
Maximum Voltage	250 VAC/400 VDC
Insulation Resistance	1000 MOhm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20 mOhm
Cable Exit	45° (Towards Pin 1)
Overall Size (Approx)	H32 x W15 x D46 mm
Cable Type:	Individual wires, screened & sleeved
Conductor: Material	Tinned copper wire
Strands	19/0.18 (0.4 mm ² , 21AWG)
Resistance	0.041Ω/m
Insulation	PFA
Outer Sleeve	Polyester
Screened Construction	Yes (Cable screen connected to backshells)
Additional Braided Sleeve	Yes
Cable O/D	8 mm
Minimum Bend Radius	25 mm
Door Closure Allowance	50 mm (see diagram)

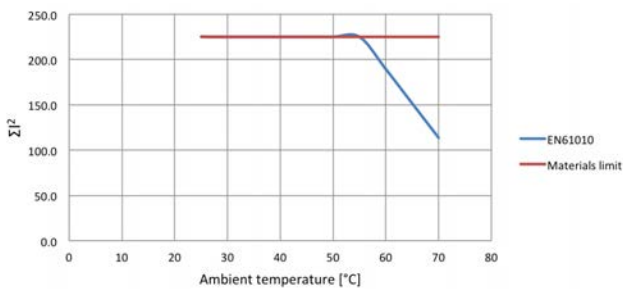
This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product



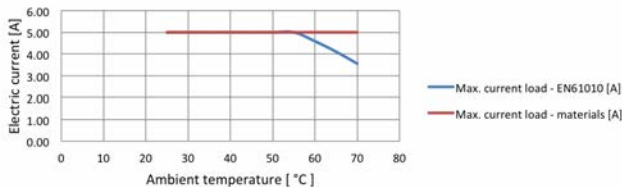
Product Compatibility



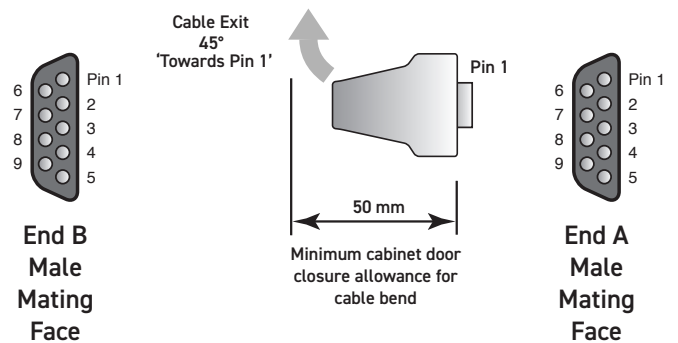
Characteristic Plots for 40-970-009-1m-MM



The graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.



The graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.



Product Order Codes

9-Pin D-Type Cable Assy, 5 A, Male to Male,	
0.5 m Long	40-970-009-0.5m-MM
1.0 m Long	40-970-009-1m-MM
2.0 m Long	40-970-009-2m-MM

Note: Other cable lengths can be supplied.

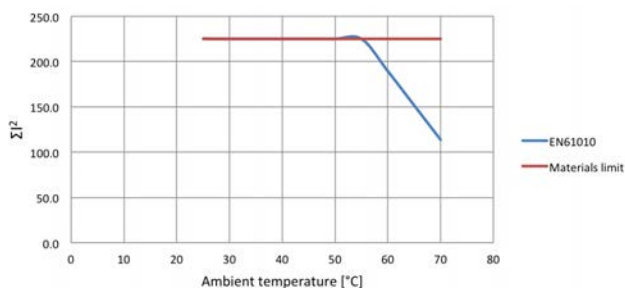
- High Specification, Highly Flexible Cable
- Fully Screened Cable Construction with Strain Relief
- Fully Coded Markers to Ensure Easy Connection

Technical Specification

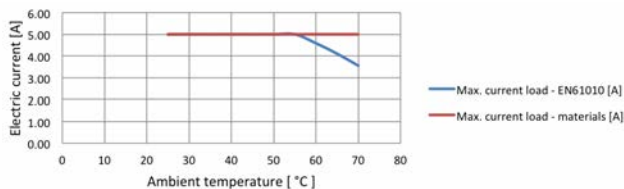
Connector Type (End A):	9-Pin D-Subminiature
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Unterminated End (End B):	
Free Wire Length	130 mm nominal
Individual Wire Labelling	To connector pins
Wire End Options	A white/black screen pigtail is included Ferrules, Tinned, Cut End
Maximum Current	5 A
Maximum Voltage	250 VAC/400 VDC
Insulation Resistance	1000 MOhm
Connector:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20 mOhm
Cable Exit	45° (Towards Pin 1)
Overall Size (Approx)	H32 x W15 x D46 mm
Cable Type:	Individual wires, screened & sleeved
Conductor: Material	Tinned copper wire
Strands	19/0.18 (0.4 mm ² , 21AWG)
Resistance	0.041 Ω/m
Insulation	PFA
Outer Sleeve	Polyester
Screened Construction	Yes (Cable screen connected to backshell)
Additional Braided Sleeve	Yes
Cable O/D	8 mm
Minimum Bend Radius	25 mm
Door Closure Allowance	50 mm (see diagram)

Note: When using this product please ensure appropriate electrical safety.

Characteristic Plots for 40-972-009-1m-MU

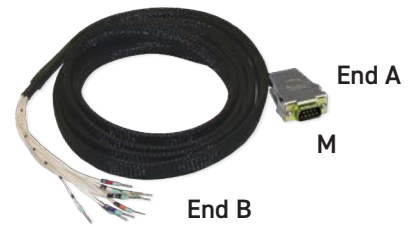


The graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.



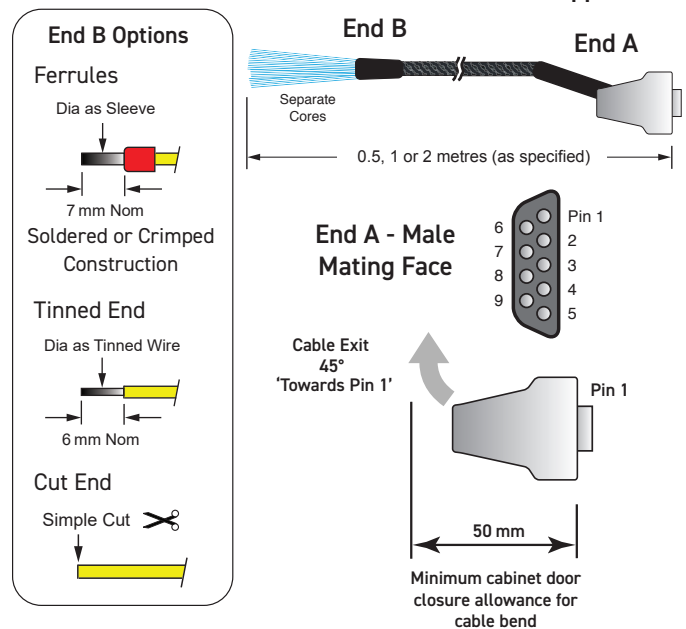
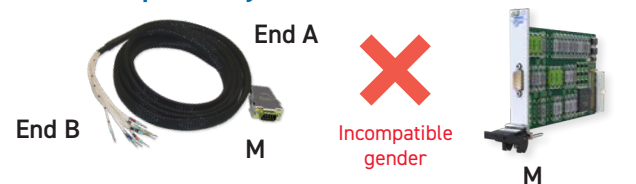
The graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product



9-Pin D-Type Unterminated Cable Assembly

Product Compatibility



Product Order Codes

- 9-Pin D-Type Cable Assy, 5 A, Cable Exit Towards Pin 1, Ferrules,
- Male to Unterminated, 0.5 m Long **40-972-009-0.5m-MU**
 - Male to Unterminated, 1.0 m Long **40-972-009-1m-MU**
 - Male to Unterminated, 2.0 m Long **40-972-009-2m-MU**

Part numbers for other versions:

End B: T = Tinned End C = Cut End	A009DM5-**-0A***	Cable Length: 050 = 0.5 m 100 = 1.0 m 200 = 2.0 m
-----------------------------------------	-------------------------	------------------------------------------------------------

Note: Other cable lengths can be supplied.

- Connector only or Connector and Backshell
- Male Screwlocks
- Cable Clamp in Backshell
- Soldered Cable Termination

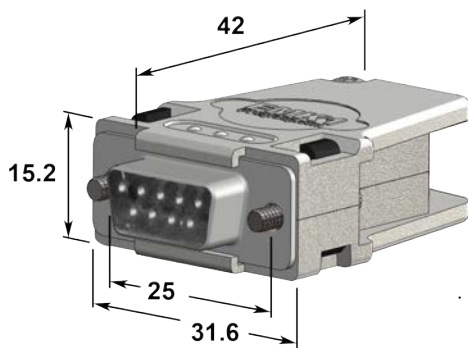
This accessory is designed to allow users to directly terminate with soldered connections to the connector.

Connector and shell are supplied separately to allow the user to determine the direction of the cable exit.

When the product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.

Technical Specification

Connector Type:	9-Pin D-Subminiature
Gender	Male
Securing Method:	
Product with Backshell	4-40 UNC screwlocks, male
Product without Backshell	4-40 UNC screwlocks, male
Wire Connection	Solder bucket. A backshell fixing is also provided for a cable screen
Connector Ratings:	
Maximum Current	5 A
Maximum Voltage	250 VAC
Cable Exit:	45°
Cable Exit Size	15 mm dia
Overall Size (Approx)	H32 x W15 x D46 mm
9-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20 mOhm
Wire Connection:	
Maximum Wire Size	20AWG
Recommended Insulation	PFA
Additional Cable Clamp	Yes (in backshell)



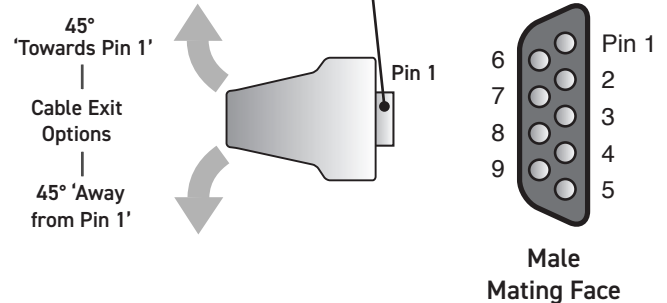
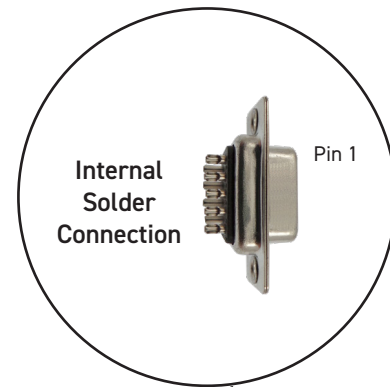
Connector Dimensions

This Connector is Not Suitable for Connection to a Pickering Switching Product



9-Pin D-Type Connector with Backshell

Product Compatibility



Product Order Codes

9-Pin D-Type Connector, 5 A, Solder Bucket,
 With Backshell, Male [40-960-009-M](#)
 Without Backshell, Male [92-960-009-M](#)

Custom Termination

Pickering Interfaces are able to manufacture custom built cable assemblies and backshells that mate with all the connectors we use in our extensive product range and to provide connection solutions for third party products.

We are able to model and manufacture cable assemblies and other termination arrangements to user notes and drawings, and to deal with simple and complex assemblies, and both small and high volume orders.

All products are designed to ensure easy and problem free connection.

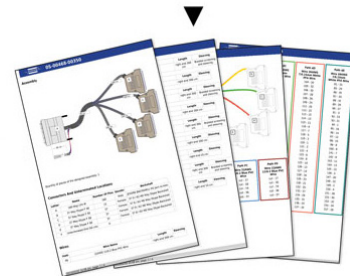
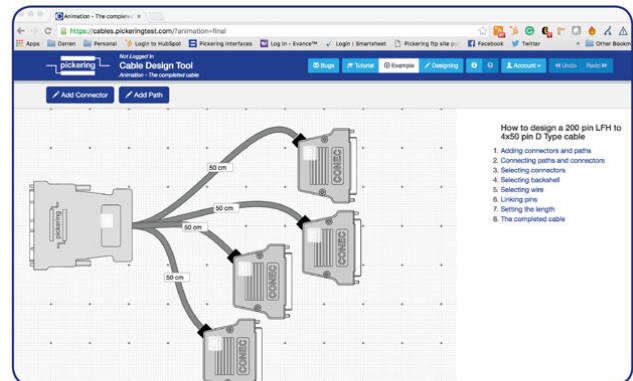
We offer a fast turn round of custom items to keep your ordering and integration time scales to a minimum.



Pickering's Cable Design Tool

Our Cable Design Tool is an online tool that allows you to define a cable assembly to exactly meet your requirements.

- Graphical design of customized cable assemblies
- Built-in library of standard cable sets can be used as the basis for customization, or cables can be defined from scratch
- The ability to store cable assemblies in the Cloud and develop them over time
- Each cable design has a PDF documentation file detailing all the specifications
- Allows detailed design including; connector types, wire type, pin definitions, pin & cable labelling, cable bundling, length selection, sleeving, comments, etc.
- Add your own connectors and wires
- Fully supported on major tablet operating systems



Because the Cable Design Tool is a web-based tool, we will continually update it to better accommodate your requirements and features. Your data is not trapped; complete details of the design are always available to the user at any time via the documentation or spreadsheet file. Once a cable is designed, you can submit it to us for quotation.

For more information visit: pickeringtest.com/cdt