

- Standard Voltage to 250 V AC/400 V DC, 5 A
- Cable Assemblies
- Cable Connectors & Connector Blocks
- PCB Connectors
- Guaranteed Compatibility



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.

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 25-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





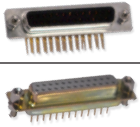
Examples of Pickering PXI, BRIC and LXI Products using 25-Pin D-type Connectors

Cable Assemblies

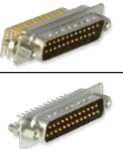
| Description | | End 1 | End 2 | | Cable Length | Product Order Code and Part Number | Data Sheet Page |
|---|---|-----------------------------|-----------------------------|------------|---------------------|--|-----------------|
| | | Gender & Cable Exit | Gender & Cable Exit | Options | | | |
|  | Cable Assy, 25-Pin D-Type, 5 A | Male, 45° Towards Pin 1 | Female, 45° Away from Pin 1 | - | 0.5 m 1 m 2 m | 40-970-025-0.5m-MF 40-970-025-1m-MF 40-970-025-2m-MF | 4 |
| | | Female, 45° Away from Pin 1 | Female, 45° Away from Pin 1 | - | 0.5 m 1 m 2 m | 40-970-025-0.5m-FF 40-970-025-1m-FF 40-970-025-2m-FF | 5 |
|  | Cable Assy, 25-Pin D-Type to Underterminated, 5 A | Female, 45° Away from Pin 1 | NA | Ferrules | 0.5 m 1 m 2 m | 40-972-025-0.5m-FU 40-972-025-1m-FU 40-972-025-2m-FU | 6 |
| | | | | Tinned End | 0.5 m 1 m 2 m | A025DF4-T-0A050 A025DF4-T-0A100 A025DF4-T-0A200 | |
| | | | | Cut End | 0.5 m 1 m 2 m | A025DF4-C-0A050 A025DF4-C-0A100 A025DF4-C-0A200 | |

Note: Custom lengths by quotation

Female Connector Blocks/Connectors

| Description | | Gender & Cable Exit | Type | Product Order Code and Part Number | Page |
|---|--|---------------------|-----------------------|------------------------------------|------|
|  | Shielded Connector Block, 25-Pin D-Type, 5 A, Screw Terminal | Female, Rear | With Backshell | 40-965-025-F | 7 |
| | | | Without Backshell | 92-965-025-F | |
|  | Cable Connector 25-Pin D-Type, 5 A, Solder Bucket | Female, 45° Options | With Backshell | 40-960-025-F | 8 |
| | | | Without Backshell | 92-960-025-F | |
|  | PCB Connector 25-Pin D-Type, 5 A | Female | Right Angle PCB Mount | 40-963-025-RF | 9 |
| | | | Straight PCB Mount | 40-963-025-SF | 10 |

Male PCB Connectors



| Description | | Gender & Cable Exit | Type | Product Order Code and Part Number | Page |
|---|----------------------------------|---------------------|-----------------------|------------------------------------|------|
|  | PCB Connector 78-Pin D-Type, 3 A | Male | Right Angle PCB Mount | 40-963-078-RM | 11 |
| | | | Straight PCB Mount | 40-963-078-SM | 12 |

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

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.

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, 25-Pin D-Type, 5 A | Male, 45° Towards Pin 1 | Male, 45° Towards Pin 1 | - | 0.5 m 1 m 2 m | 40-970-025-0.5m-MM 40-970-025-1m-MM 40-970-025-2m-MM | 14 |
|  | Cable Assy, 25-Pin D-Type to Unterminated, 5 A | Male, 45° Towards Pin 1 | NA | Ferrules | 0.5 m 1 m 2 m | 40-972-025-0.5m-MU 40-972-025-1m-MU 40-972-025-2m-MU | 15 |
| | | | | Tinned End | 0.5 m 1 m 2 m | A025DM5-T-0A050 A025DM5-T-0A100 A025DM5-T-0A200 | |
| | | | | Cut End | 0.5 m 1 m 2 m | A025DM5-C-0A050 A025DM5-C-0A100 A025DM5-C-0A200 | |

Note: Custom lengths by quotation

Male Connector Blocks/PCB Connectors

| Description | Gender & Cable Exit | Type | Product Order Code and Part Number | Page |
|---|---------------------|-------------------|------------------------------------|------|
|  | Male, 45° Options | With Backshell | 40-960-025-M | 16 |
| | | Without Backshell | 92-960-025-M | |

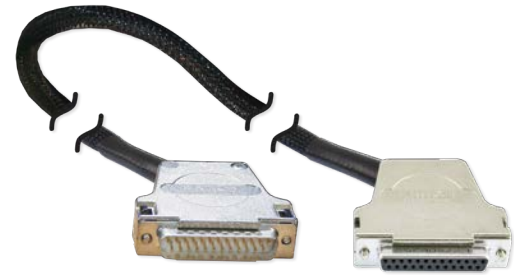
Custom Termination

Customization Possibilities 17

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

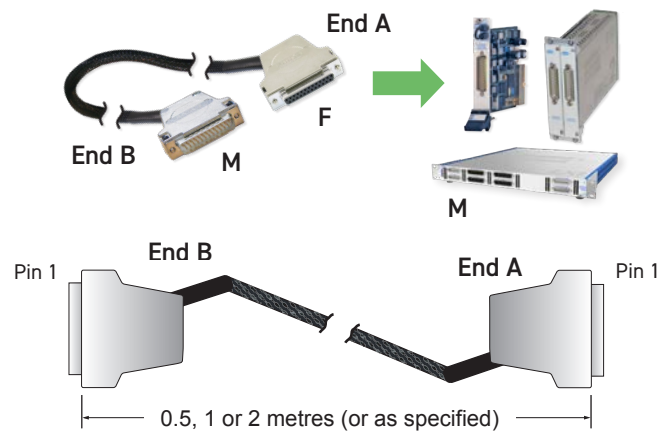
Technical Specification

| | |
|---------------------------|--|
| Connector Type (End A): | 25-Pin D-Subminiature |
| Gender | Female |
| Securing Method | 4-40 UNC screwlocks, male |
| Connector Type (End B): | 25-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 | <2 0 mOhm |
| Cable Exit: | |
| Female Connectors | 45° (Away from Pin 1) |
| Male Connectors | 45° (Towards Pin 1) |
| Overall Size (Approx) | H54 x W15.5 x D52 mm |
| Cable Type: | Individual wires, screened & sleeved |
| Conductor: Material | Tinned copper wire |
| Strands | 19/0.18 (0.410 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 | 10 mm |
| Minimum Bend Radius | 25 mm |
| Door Closure Allowance | 55 mm (see diagram) |

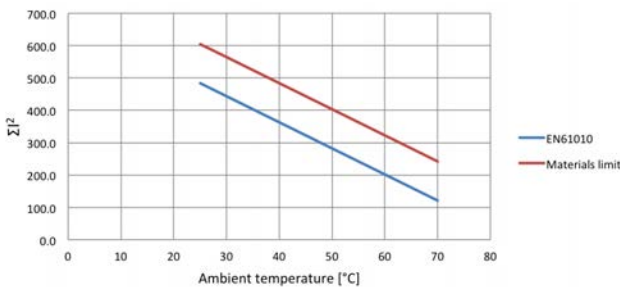


25-Pin D-Type Cable Assembly

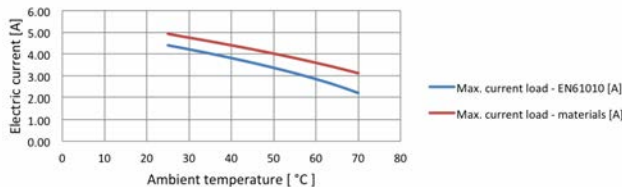
Product Compatibility



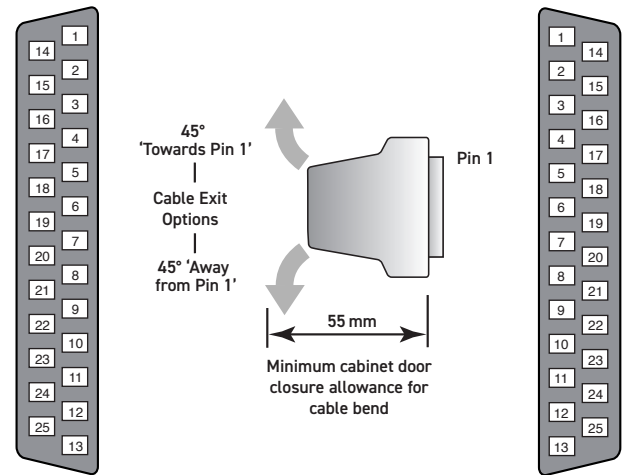
Characteristic Plots for 40-970-025-1m



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.



End B - Male Mating Face

End A - Female Mating Face

Product Order Codes

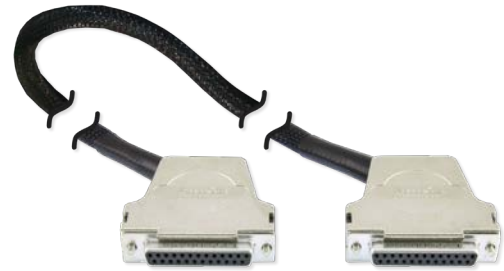
- 25-Pin D-Type Cable Assy, 5 A, Male to Female,
- 0.5 m Long [40-970-025-0.5m-MF](#)
 - 1.0 m Long [40-970-025-1m-MF](#)
 - 2.0 m Long [40-970-025-2m-MF](#)

Note: Other cable lengths can be supplied.

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

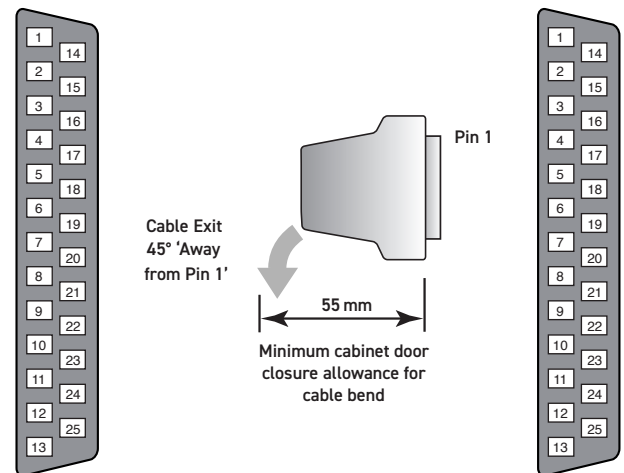
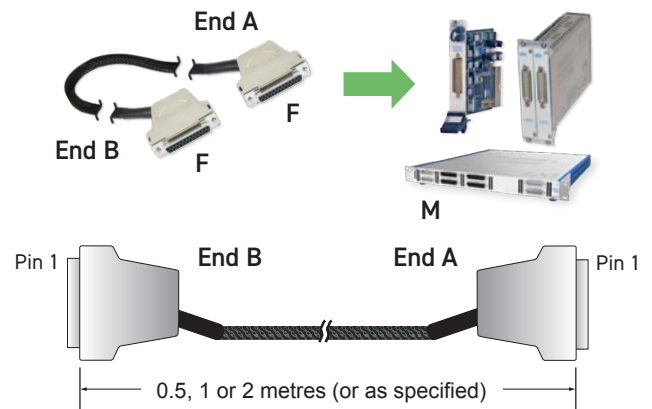
Technical Specification

| | |
|---------------------------|--|
| Connector Type (End A): | 25-Pin D-Subminiature |
| Gender | Female |
| Securing Method | 4-40 UNC screwlocks, male |
| Connector Type (End B): | 25-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) | H54 x W15.5 x D52 mm |
| Cable Type: | Individual wires, screened & sleeved |
| Conductor: Material | Tinned copper wire |
| Strands | 19/0.18 (0.410 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 | 10 mm |
| Minimum Bend Radius | 25 mm |
| Door Closure Allowance | 55 mm (see diagram) |



25-Pin D-Type Cable Assembly

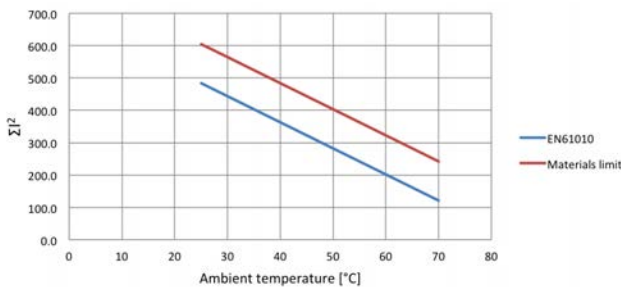
Product Compatibility



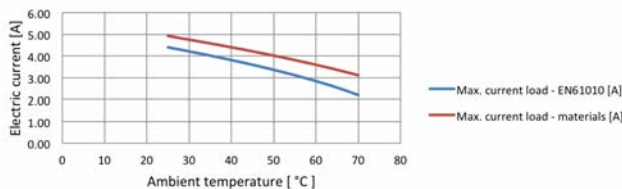
End B - Female Mating Face

End A - Female Mating Face

Characteristic Plots for 40-970-025-1m



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

- 25-Pin D-Type Cable Assy, 5 A, Female to Female,
- 0.5 m Long [40-970-025-0.5m-FF](#)
 - 1.0 m Long [40-970-025-1m-FF](#)
 - 2.0 m Long [40-970-025-2m-FF](#)

Note: Other cable lengths can be supplied.

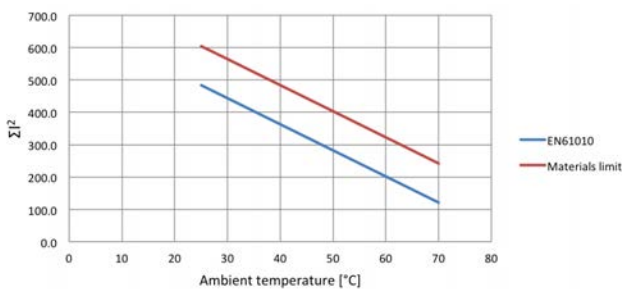
- High Specification, Highly Flexible Cable
- Fully Screened Cable Construction with Strain Relief
- 45 Degree Cable Exit
- Fully Coded Markers to Ensure Easy Connection

Technical Specification

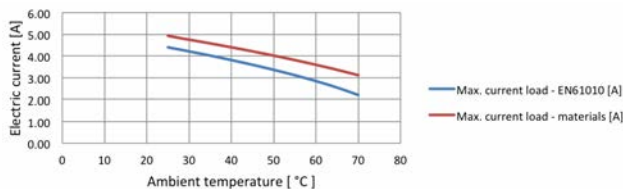
| | |
|----------------------------|--|
| Connector Type (End A): | 25-Pin D-Subminiature |
| Gender: | Female |
| Securing Method: | 4-40 UNC screwlocks, male |
| Unterminated End (End B): | |
| Free Wire Length: | 130 mm nominal |
| Individual Wire Labelling: | To connector pins A white/black screen 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): | H54 x W15.5 x D52 mm |
| Cable Type: | Individual wires, screened & sleeved |
| Conductor: Material: | Tinned copper wire |
| Strands: | 19/0.18 (0.410 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: | 10 mm |
| Minimum Bend Radius: | 25 mm |
| Door Closure Allowance: | 55 mm (see diagram) |

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

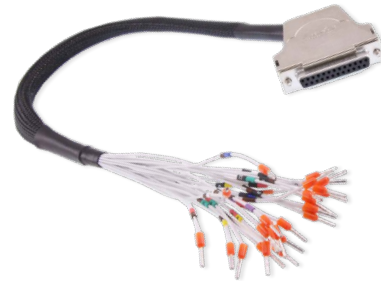
Characteristic Plots for 40-972-025-1m



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.

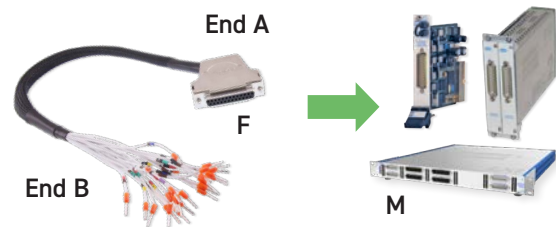


The graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.



25-Pin D-Type Unterminated Cable Assembly

Product Compatibility



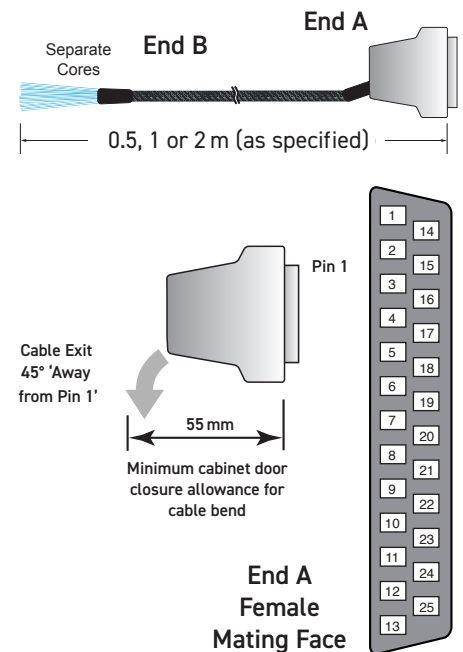
End B Options

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

- 25-Pin D-Type Cable Assy, 5 A, Female to Unterminated,
 Ferrules, 0.5 m Long 40-972-025-0.5m-FU
 Ferrules, 1.0 m Long 40-972-025-1m-FU
 Ferrules, 2.0 m Long 40-972-025-2m-FU

Part numbers for other versions:

A025DF4-*-0A***

| | |
|---|--|
| End B: T = Tinned End C = Cut End | Cable Length: 050 = 0.5 m 100 = 1.0 m 200 = 2.0 m |
|---|--|

Note: Other cable lengths can be supplied.

- Connector & PCB Only or Connector, PCB & Backshell
- Male Screwlocks
- Cable Clamp in Backshell
- 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.

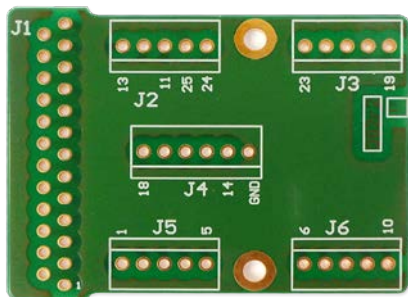
The screw terminals use a rising cage clamp mechanism to minimize risk of copper strand breakage. PTFE cables are recommended for use with this connector block to maximise copper cross-sectional area and insulation properties. The breakdown voltage of the connector block is controlled by clearances to the metal shell. The metal shell includes an internal insulation barrier under the carrier board.

This connector block uses male screwlocks and will not mate to Pickering cables. Connector blocks supplied without a backshell do not include cable strain relief.

Technical Specification

| | |
|---------------------------|---------------------------------------|
| Connector Type: | 25-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 V DC |
| Cable Exit | Rear - 11 x 24 mm |
| Overall Size (Approx) | H59.5 x W17.5 x D74.5 mm |
| 25-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) |

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

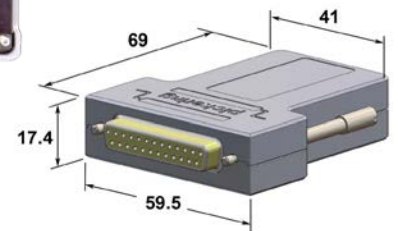
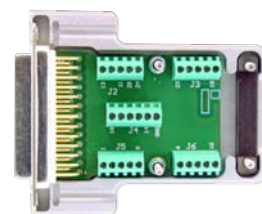
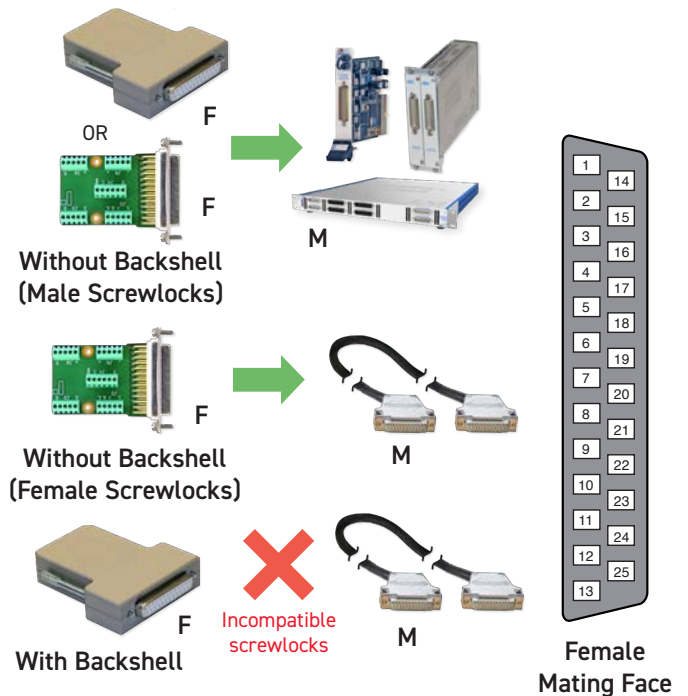


PCB Legend



25-Pin D-Type Connector Block

Product Compatibility



Connector Block Dimensions

Product Order Codes

- 25-Pin D-Type Connector Block, 5 A, Screw Terminal, With Backshell, Female [40-965-025-F](#)
- 25-Pin D-Type Connector Block, 5 A, Screw Terminal, Without Backshell, Female [92-965-025-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.

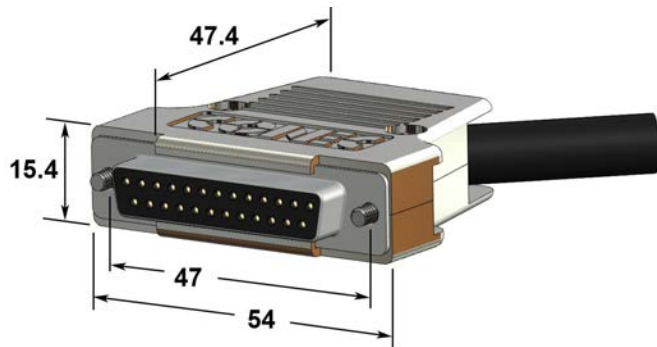
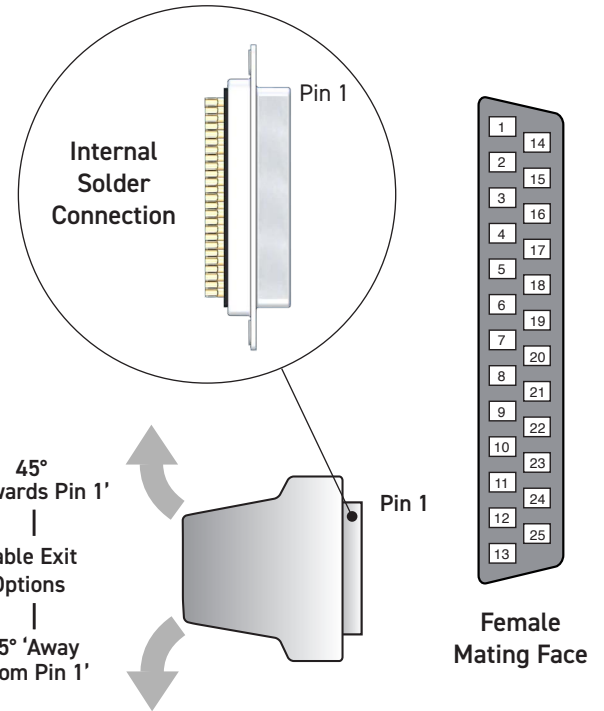
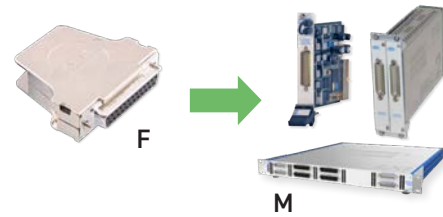


25-Pin D-Type Cable Connector with Backshell

Technical Specification

| | |
|---------------------------|---|
| Connector Type: | 25-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 V AC |
| Cable Exit: | 45° |
| Cable Exit Size | 10 mm dia |
| Overall Size (Approx) | H54 x W15.5 x D52 mm |
| 25-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) |

Product Compatibility



Connector Dimensions

Product Order Codes

25-Pin D-Type Connector, 5 A, Solder Bucket,
 With Backshell, Female 40-960-025-F
 Without Backshell, Female 92-960-025-F

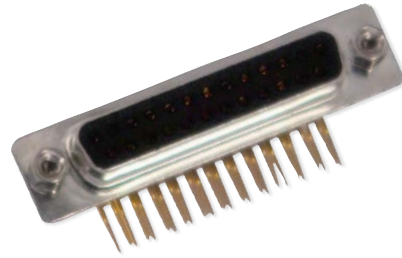
- Right Angle PCB Mount
- Ideal for User Created Termination Solutions

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.

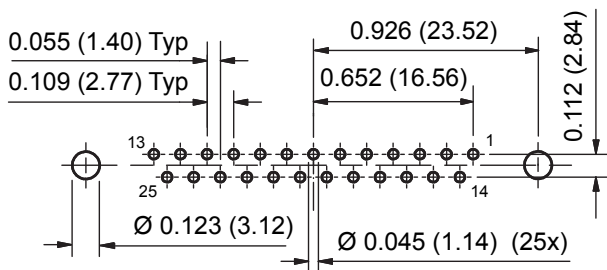
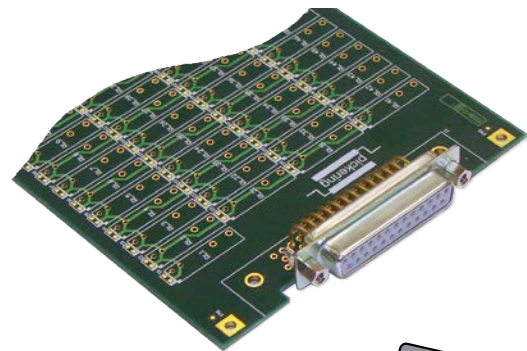
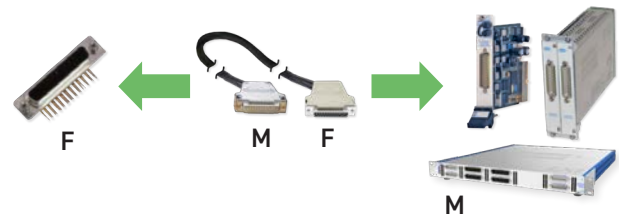
Technical Specification

| | |
|----------------------|-------------------------------|
| Connector Type: | 25-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 V AC |
| 25-Pin D-Sub: | |
| Contact Material | Gold plated copper alloy |
| Contact Resistance | <20 mOhm |
| PCB Legs: | |
| Effective Leg Length | 3.3 mm nom (See diagram) |



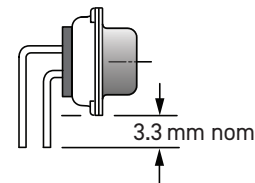
25-Pin D-Type PCB Connector

Product Compatibility



Mating Face of Connector this side of footprint

PCB Footprint of 25-Pin Right Angle Female Connector
(Connector Side - Not to Scale)



Effective Leg Length



Female Mating Face

Product Order Codes

25-Pin D-Type Connector, 5 A, Right Angle PCB Mount, Female **40-963-025-RF**

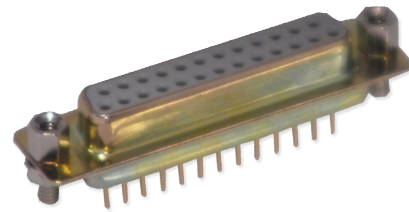
- Straight PCB Mount
- Ideal for User Created Termination Solutions

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.

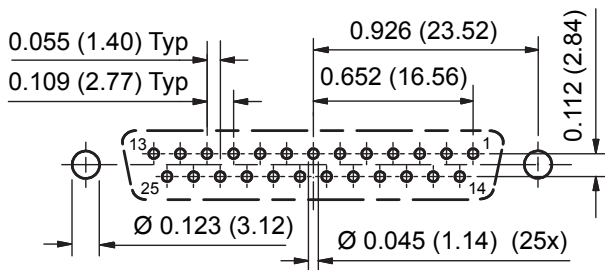
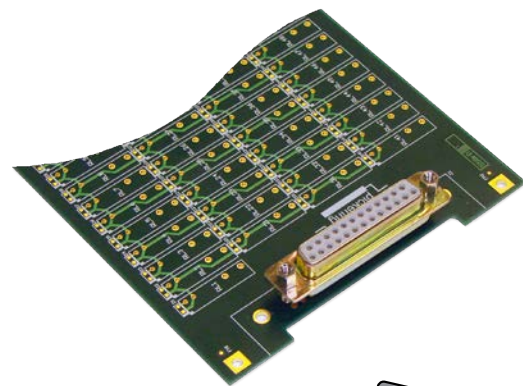
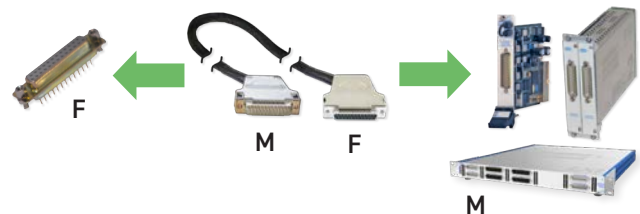
Technical Specification

| | |
|--------------------|-----------------------------|
| Connector Type: | 25-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 V AC |
| 25-Pin D-Sub: | |
| Contact Material | Gold plated copper alloy |
| Contact Resistance | <20 mOhm |
| PCB Legs: | |
| Leg Length | 5 mm nom (See diagram) |

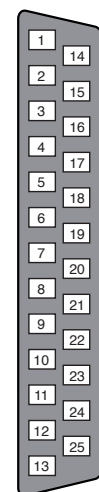
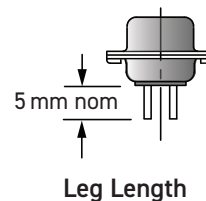


25-Pin D-Type PCB Connector

Product Compatibility



PCB Footprint of 25-Pin Straight Female Connector
(Connector Side - Not to Scale)



Female Mating Face

Product Order Codes

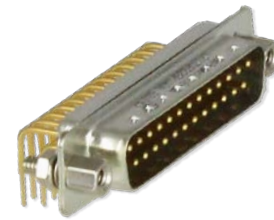
25-Pin D-Type Connector, 5 A, Straight PCB Mount, Female

[40-963-025-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.

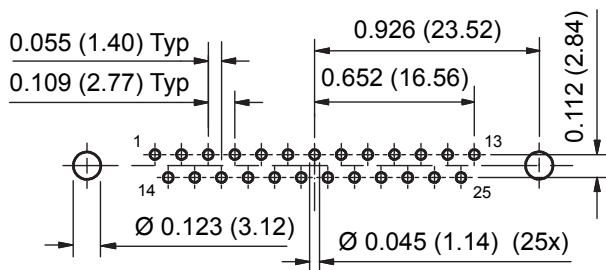
Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



25-Pin D-Type PCB Connector

Technical Specification

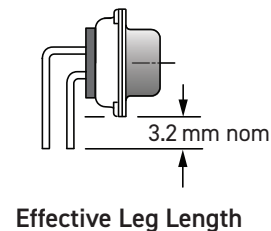
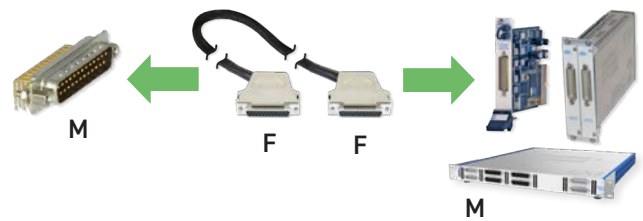
| | |
|----------------------|-------------------------------|
| Connector Type: | 25-Pin D-Subminiature |
| Gender | Male |
| Securing Method | 4-40 UNC screwlocks, female |
| PCB Mounting | Right angle PCB mount, solder |
| Connector Ratings: | |
| Maximum Current | 5 A each pin |
| Maximum Voltage | 250 V AC |
| 25-Pin D-Sub: | |
| Contact Material | Gold plated copper alloy |
| Contact Resistance | <20 mOhm |
| PCB Legs: | |
| Effective Leg Length | 3.2 mm nom (See diagram) |



Mating Face of Connector this side of footprint

PCB Footprint of 25-Pin Right Angle Male Connector
(Connector Side - Not to Scale)

Product Compatibility



Effective Leg Length



Male Mating Face

Product Order Codes

25-Pin D-Type Connector, 5 A, Right Angle PCB Mount, Male [40-963-025-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.

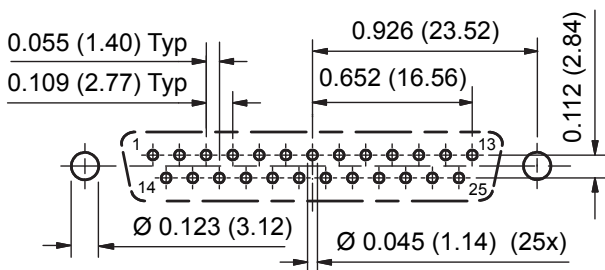
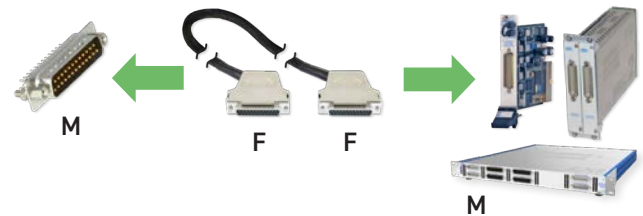


25-Pin D-Type PCB Connector

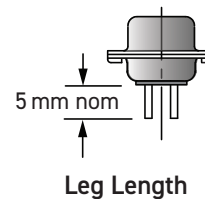
Technical Specification

| | |
|--------------------|-----------------------------|
| Connector Type: | 25-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 V AC |
| 25-Pin D-Sub: | |
| Contact Material | Gold plated copper alloy |
| Contact Resistance | <20 mOhm |
| PCB Legs: | |
| Leg Length | 5 mm nom (See diagram) |

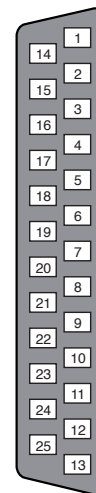
Product Compatibility



PCB Footprint of 25-Pin Straight Male Connector
(Connector Side - Not to Scale)



Leg Length



Male Mating Face

Product Order Codes

25-Pin D-Type Connector, 5 A, Straight PCB Mount, Male

[40-963-025-SM](#)

Additional Connection Accessories

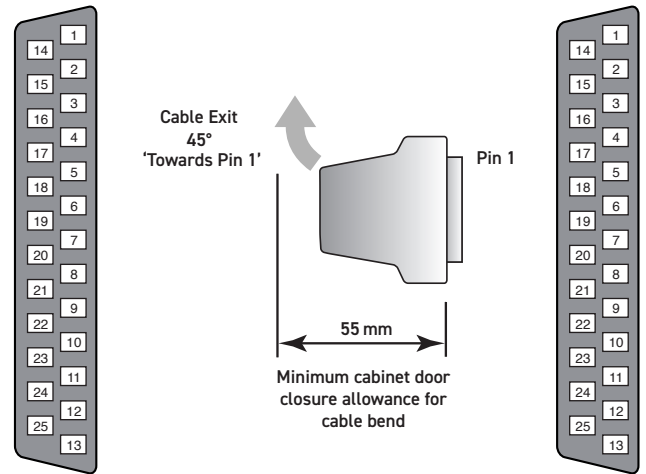
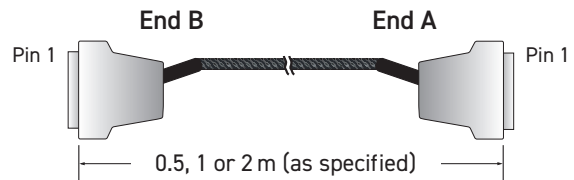
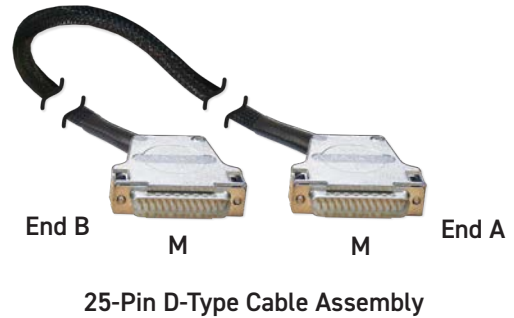
Although these items do not directly mate with Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

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

Technical Specification

| | |
|---------------------------|--|
| Connector Type (End A): | 25-Pin D-Subminiature |
| Gender | Male |
| Securing Method | 4-40 UNC screwlocks, male |
| Connector Type (End B): | 25-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) | H54 x W15.5 x D52 mm |
| Cable Type: | Individual wires, screened & sleeved |
| Conductor: Material | Tinned copper wire |
| Strands | 19/0.18 (0.410 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 | 10 mm |
| Minimum Bend Radius | 25 mm |
| Door Closure Allowance | 55 mm (see diagram) |

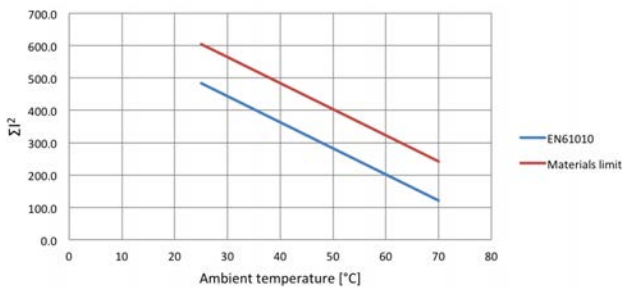
This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product



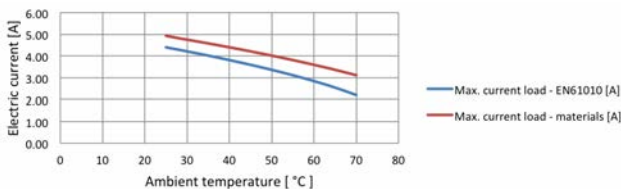
End B - Male Mating Face

End A - Male Mating Face

Characteristic Plots for 40-970-025-1m



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

25-Pin D-Type Cable Assy, 5 A, Male to Male,
 0.5 m Long [40-970-025-0.5m-MM](#)
 1.0 m Long [40-970-025-1m-MM](#)
 2.0 m Long [40-970-025-2m-MM](#)

Note: Other cable lengths can be supplied.

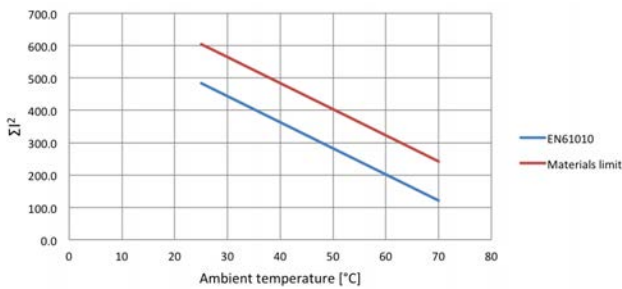
- High Specification, Highly Flexible Cable
- Fully Screened Cable Construction with Strain Relief
- 45 Degree Cable Exit
- Fully Coded Markers to Ensure Easy Connection

Technical Specification

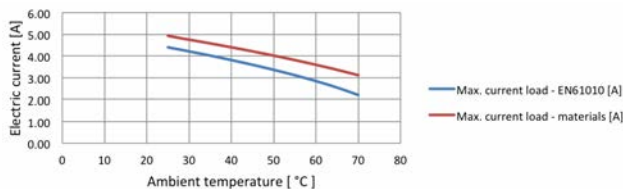
| | |
|---------------------------|---|
| Connector Type (End A): | 25-Pin D-Subminiature |
| Gender | Male |
| Securing Method | 4-40 UNC screwlocks, male |
| Unterminated End (End B): | |
| Free Wire Length | 130 mm nominal |
| Individual Wire Labelling | To connector pins |
| Wire End Options | A 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) | H54 x W15.5 x D52 mm |
| Cable Type: | Individual wires, screened & sleeved |
| Conductor: Material | Tinned copper wire |
| Strands | 19/0.18 (0.410 mm ² , 21AWG) |
| Resistance | 0.041Ω/m |
| Insulation | PFA |
| Outer Sleeve | Polyester |
| Screened Construction | Yes (Cable screen connected to backshell) |
| Additional Braided Sleeve | Yes |
| Cable O/D | 10 mm |
| Minimum Bend Radius | 25 mm |
| Door Closure Allowance | 55 mm (see diagram) |

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

Characteristic Plots for 40-972-025-1m

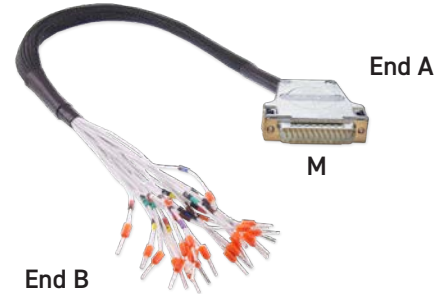


The graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

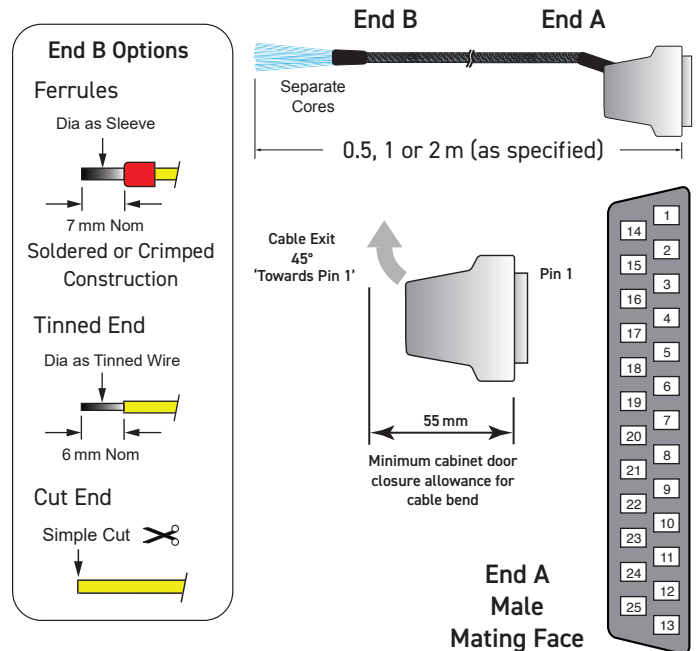


The graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

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



25-Pin D-Type Unterminated Cable Assembly



Product Order Codes

- 25-Pin D-Type Cable Assy, 5 A, Male to Unterminated, Ferrules, 0.5 m Long [40-972-025-0.5m-MU](#)
- Ferrules, 1.0 m Long [40-972-025-1m-MU](#)
- Ferrules, 2.0 m Long [40-972-025-2m-MU](#)

Part numbers for other versions:

A025DM5-*0A***

| | |
|---|--|
| End B: T = Tinned End C = Cut End | 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
- Cable Clamp in Backshell
- Soldered Cable Termination

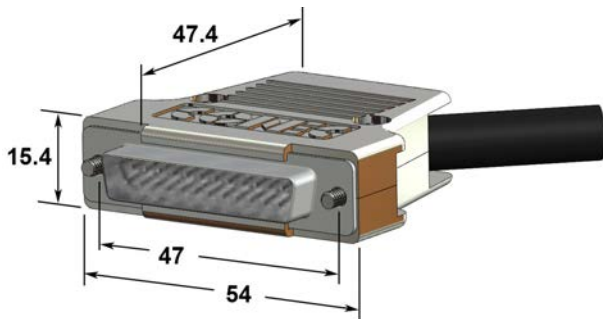
This accessory is designed to allow users to directly terminate with soldered connections to the connector.

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.

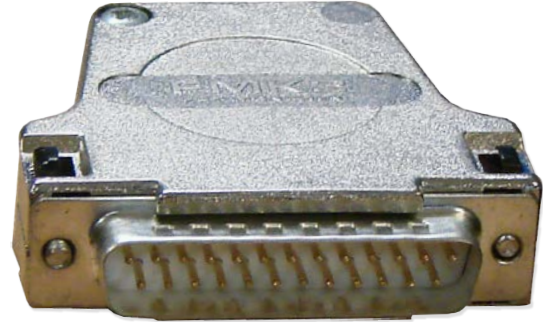
Technical Specification

| | |
|---------------------------|---|
| Connector Type: | 25-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 V AC |
| Cable Exit: | 45° |
| Cable Exit Size | 10 mm dia |
| Overall Size (Approx) | H54 x W15.5 x D52 mm |
| 25-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) |



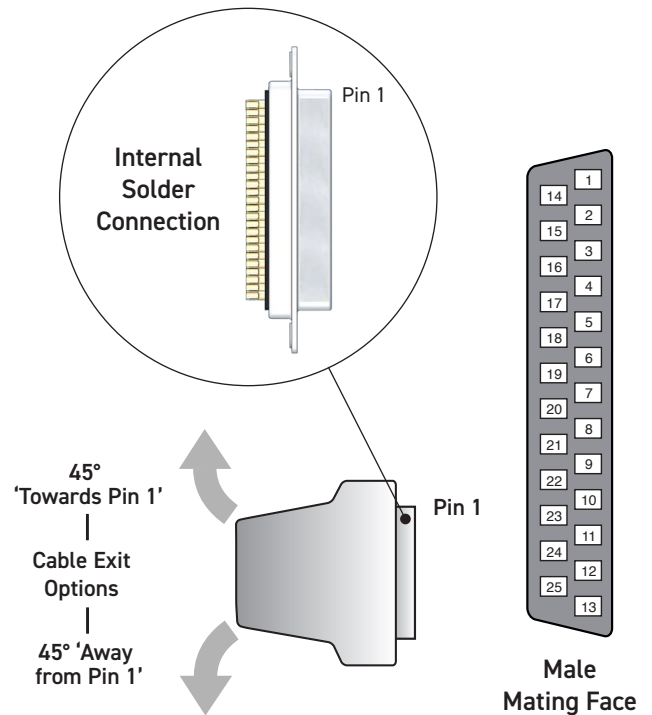
Connector Dimensions

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



M

25-Pin D-Type Cable Connector with Backshell



Product Order Codes

| | |
|---|------------------------------|
| 25-Pin D-Type Connector, 5 A, Solder Bucket, With Backshell, Male | 40-960-025-M |
| Without Backshell, Male | 92-960-025-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.

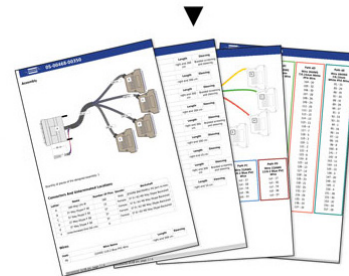
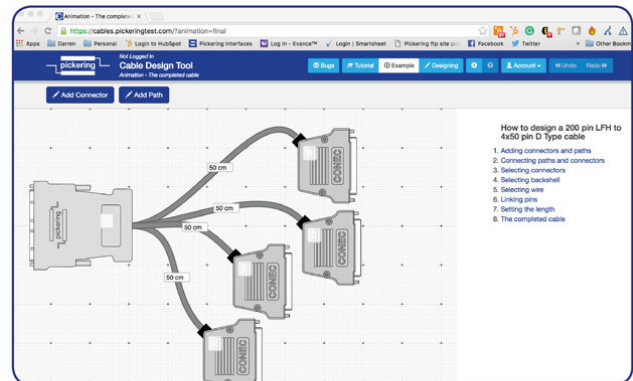
We offer a fast turn round of custom items to keep your ordering and integration time scales to a minimum.



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