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8-Pin Power D-type Accessories

90-012D



- Voltage to 350VDC or 350VAC Peak, 40A
- Cable Assemblies
- Cable Connectors
- 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 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.

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 and LXI Products using 8-Pin Power 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, 8-Pin Power D-Type, 40A	Male, 45° Towards Pin 1	Female, 45° Away from Pin 1	-	0.5m 1m 2m	40-970-408-0.5m-MF 40-970-408-1m-MF 40-970-408-2m-MF	5
	Cable Assy, 8-Pin Power D-Type, 40A, 4-Pin Partially Populated Version for 40-170	Male, 45° Towards Pin 1	Female, 45° Away from Pin 1	-	0.5m 1m 2m	40-970-404-0.5m-MF 40-970-404-1m-MF 40-970-404-2m-MF	6
	Cable Assy, 8-Pin Power D-Type, 40A	Female, 45° Away from Pin 1	Female, 45° Away from Pin 1	-	0.5m 1m 2m	40-970-408-0.5m-FF 40-970-408-1m-FF 40-970-408-2m-FF	7
	Cable Assy, 8-Pin Power D-Type, 40A, 4-Pin Partially Populated Version for 40-170	Female, 45° Away from Pin 1	Female, 45° Away from Pin 1	-	0.5m 1m 2m	40-970-404-0.5m-FF 40-970-404-1m-FF 40-970-404-2m-FF	8
	Cable Assy, 8-Pin Power D-Type to Unterminated, 40A	Female, 45° Away from Pin 1	NA	Ferrules	0.5m 1m 2m	A008PF4-F-5A050 A008PF4-F-5A100 A008PF4-F-5A200	9
				Tinned End	0.5m 1m 2m	A008PF4-T-5A050 A008PF4-T-5A100 A008PF4-T-5A200	
				Cut End	0.5m 1m 2m	40-972-408-0.5m-FU 40-972-408-1m-FU 40-972-408-2m-FU	
	Cable Assy, 8-Pin Power D-Type to Unterminated, 40A, 4-Pin Partially Populated Version for 40-170	Female, 45° Away from Pin 1	NA	Ferrules	0.5m 1m 2m	A008PF4-F-6A050 A008PF4-F-6A100 A008PF4-F-6A200	10
				Tinned End	0.5m 1m 2m	A008PF4-T-6A050 A008PF4-T-6A100 A008PF4-T-6A200	
				Cut End	0.5m 1m 2m	40-972-404-0.5m-FU 40-972-404-1m-FU 40-972-404-2m-FU	

Note: Custom lengths by quotation

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

Female Connectors

Description		Gender & Cable Exit	Type	Product Order Code and Part Number	Page
	Cable Connector 8-Pin Power D-Type, 40A, Solder Bucket	Female, 45° Options	With Backshell	40-960-008-F	11
			Without Backshell	92-960-008-F	
	Cable Connector 8-Pin Power D-Type, 4-Pin Partially Populated Version for 40-170, 40A, Solder Bucket	Female, 45° Options	With Backshell	40-960-004-F	12
			Without Backshell	92-960-004-F	
	PCB Connector 8-Pin Power D-Type, 20A	Female	Right Angle PCB Mount	40-963-008-RF	13
	PCB Connector 8-Pin Power D-Type, 4-Pin Partially Populated Version for 40-170, 20A		Right Angle PCB Mount	40-963-004-RF	14

Male PCB Connectors

Description		Gender & Cable Exit	Type	Product Order Code and Part Number	Page
	PCB Connector 8-Pin Power D-Type, 20A	Male	Right Angle PCB Mount	40-963-008-RM	15
	PCB Connector 8-Pin Power D-Type, 4-Pin Partially Populated Version for 40-170, 20A		Right Angle PCB Mount	40-963-004-RM	16

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, 8-Pin Power D-Type, 40A	Male, 45° Towards Pin 1	Male, 45° Towards Pin 1	-	0.5m 1m 2m	40-970-408-0.5m-MM 40-970-408-1m-MM 40-970-408-2m-MM	18
	Cable Assy, 8-Pin Power D-Type to Unterminated, 40A	Male, 45° Towards Pin 1	NA	Ferrules	0.5m 1m 2m	A008PM5-F-5A050 A008PM5-F-5A100 A008PM5-F-5A200	19
				Tinned End	0.5m 1m 2m	A008PM5-T-5A050 A008PM5-T-5A100 A008PM5-T-5A200	
				Cut End	0.5m 1m 2m	40-972-408-0.5m-MU 40-972-408-1m-MU 40-972-408-2m-MU	
Note: Custom lengths by quotation							

Male Connectors

Description		Gender & Cable Exit	Type	Product Order Code and Part Number	Page
	Cable Connector 8-Pin Power D-Type, 40A, Solder Bucket	Male, 45° Options	With Backshell	40-960-008-M	20
			Without Backshell	92-960-008-M	

Custom Termination

Customization Possibilities 21

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

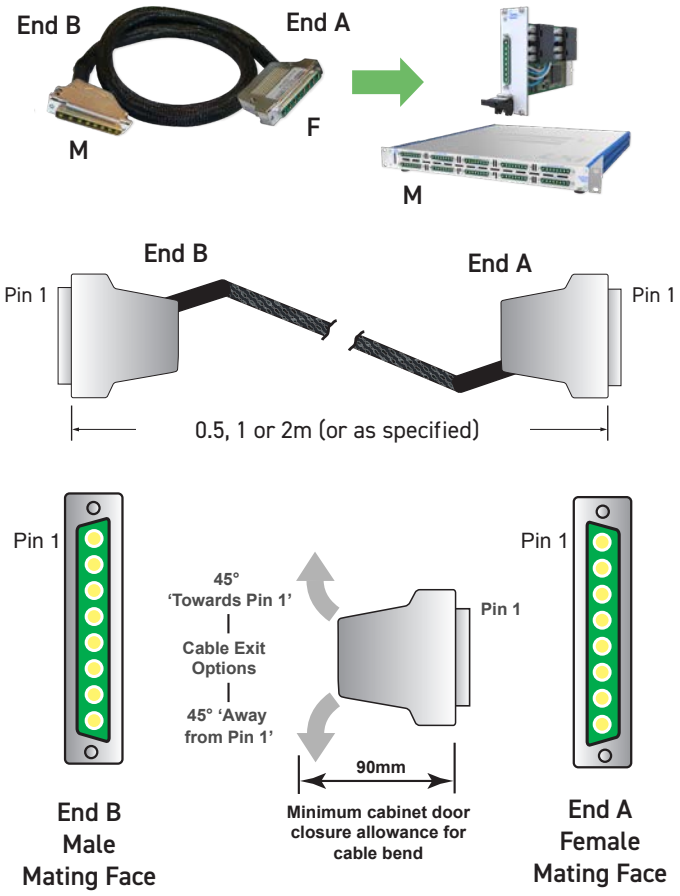
Technical Specification

Connector Type (End A):	8-Pin D-Subminiature
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	8-Pin D-Subminiature
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Maximum Current	40A
Maximum Voltage	350VDC/350VAC peak
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	1.0mOhm
Cable Exit:	
Female Connectors	45° (Away from Pin 1)
Male Connectors	45° (Towards Pin 1)
Overall Size (Approx)	H71 x W16 x D55mm
Cable Type:	Individual wires, screened & sleeved. Tri-rated
Conductor: Material	Copper
Strands	56/0.3 (4mm² csa, 12AWG), 4mm O/D
Resistance	4.95mΩ/m nominal
Insulation	PVC
Outer Sleeve	Polyester
Screened Construction	Yes (Cable screen connected to backshells)
Additional Braided Sleeve	Yes
Cable O/D	13mm
Minimum Bend Radius	25mm
Door Closure Allowance	90mm (see diagram)



8-Pin Power D-Type Cable Assembly

Product Compatibility



Product Order Codes

8-Pin Power D-Type Cable Assy, 40A, Male to Female,	
0.5m Long	40-970-408-0.5m-MF
1.0m Long	40-970-408-1m-MF
2.0m Long	40-970-408-2m-MF

Note: Other cable lengths can be supplied.

- 4-Pin Version for High Power Relay Module 40-170
- High Specification, Highly Flexible Cable
- Fully Screened Cable Construction with Strain Relief
- 45 Degree Cable Exit

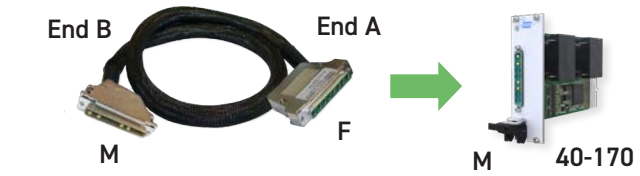
Technical Specification

Connector Type (End A):	8-Pin D-Subminiature (4-Pin version)
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	8-Pin D-Subminiature (4-Pin version)
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Maximum Current	40A
Maximum Voltage	350VDC/350VAC peak
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	1.0mOhm
Cable Exit:	
Female Connectors	45° (Away from Pin 1)
Male Connectors	45° (Towards Pin 1)
Overall Size (Approx)	H71 x W16 x D55mm
Cable Type:	Individual wires, screened & sleeved. Tri-rated
Conductor: Material	Copper
Strands	56/0.3 (4mm² csa, 12AWG), 4mm O/D
Resistance	4.95mΩ/m nominal
Insulation	PVC
Outer Sleeve	Polyester
Screened Construction	Yes (Cable screen connected to backshells)
Additional Braided Sleeve	Yes
Cable O/D	13mm
Minimum Bend Radius	25mm
Door Closure Allowance	90mm (see diagram)

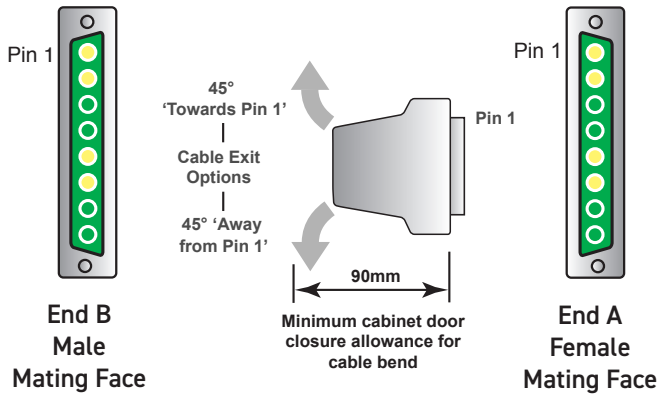


8-Pin Power D-Type Cable Assembly
(4-Pin version)

Product Compatibility







Product Order Codes

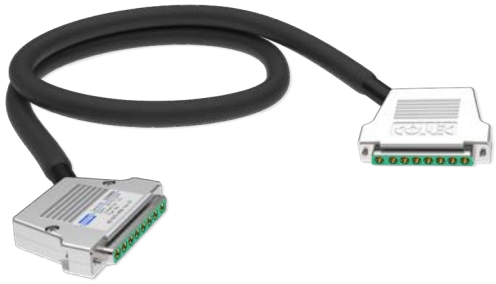
4-Pin Version of 8-Pin Power D-Type Cable Assy, 40A, Male to Female,	
0.5m Long	40-970-404-0.5m-MF
1.0m Long	40-970-404-1m-MF
2.0m Long	40-970-404-2m-MF

Note: Other cable lengths can be supplied.

Cable Assy - Female to Female

90-012D

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

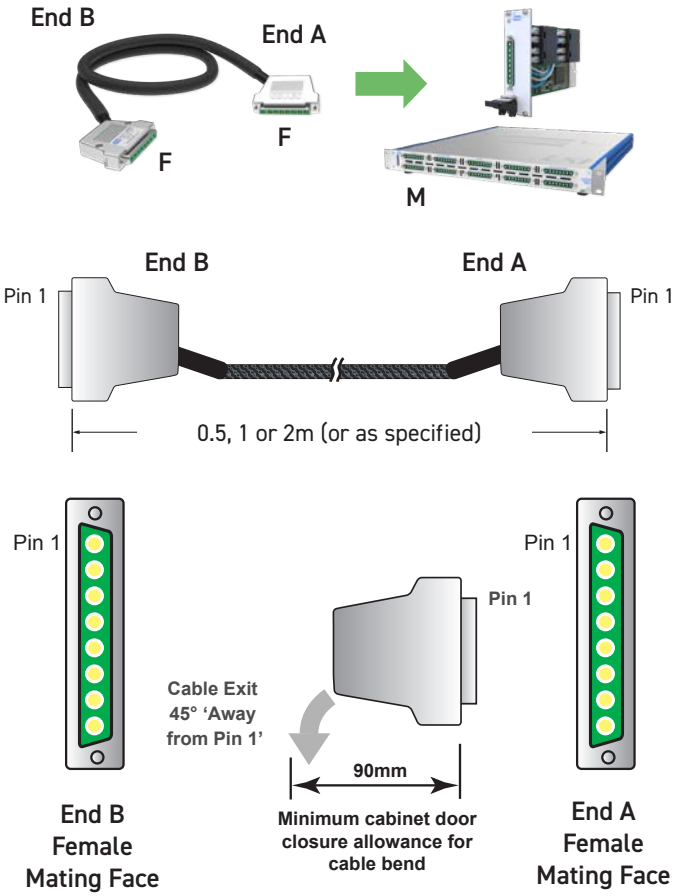


8-Pin Power D-Type Cable Assembly

Technical Specification

Connector Type (End A):	8-Pin D-Subminiature
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	8-Pin D-Subminiature
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Maximum Current	40A
Maximum Voltage	350VDC/350VAC peak
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	1.0mOhm
Cable Exit:	45° (Away from Pin 1)
Overall Size (Approx)	H71 x W16 x D55mm
Cable Type:	Individual wires, screened & sleeved. Tri-rated
Conductor: Material	Copper
Strands	56/0.3 (4mm² csa, 12AWG), 4mm O/D
Resistance	4.95mΩ/m nominal
Insulation	PVC
Outer Sleeve	Polyester
Screened Construction	Yes (Cable screen connected to backshells)
Additional Braided Sleeve	Yes
Cable O/D	13mm
Minimum Bend Radius	25mm
Door Closure Allowance	90mm (see diagram)

Product Compatibility



Product Order Codes

8-Pin Power D-Type Cable Assy, 40A, Female to Female,	
0.5m Long	40-970-408-0.5m-FF
1.0m Long	40-970-408-1m-FF
2.0m Long	40-970-408-2m-FF

Note: Other cable lengths can be supplied.

Cable Assy - Female to Female

90-012D

- 4-Pin Version for High Power Relay Module 40-170
- High Specification, Highly Flexible Cable
- Fully Screened Cable Construction with Strain Relief
- 45 Degree Cable Exit

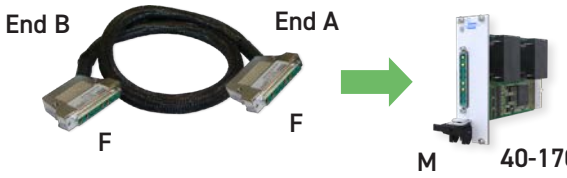
Technical Specification

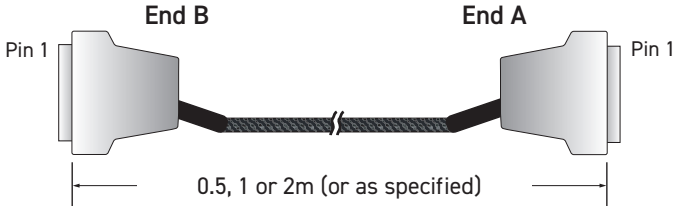
Connector Type (End A):	8-Pin D-Subminiature (4-Pin version)
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	8-Pin D-Subminiature (4-Pin version)
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Maximum Current	40A
Maximum Voltage	350VDC/350VAC peak
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	1.0mOhm
Cable Exit:	45° (Away from Pin 1)
Overall Size (Approx)	H71 x W16 x D55mm
Cable Type:	Individual wires, screened & sleeved. Tri-rated
Conductor: Material	Copper
Strands	56/0.3 (4mm² csa, 12AWG), 4mm O/D
Resistance	4.95mΩ/m nominal
Insulation	PVC
Outer Sleeve	Polyester
Screened Construction	Yes (Cable screen connected to backshells)
Additional Braided Sleeve	Yes
Cable O/D	13mm
Minimum Bend Radius	25mm
Door Closure Allowance	90mm (see diagram)

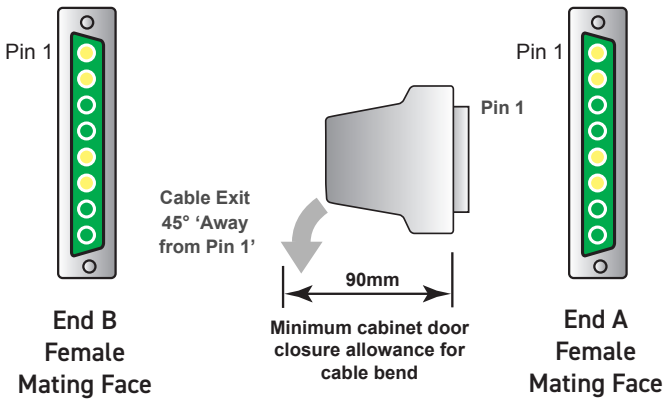


8-Pin Power D-Type Cable Assembly (4-Pin Version)

Product Compatibility







Product Order Codes

4-Pin Version of 8-Pin Power D-Type Cable Assy, 40A,	
Female to Female, 0.5m Long	40-970-404-0.5m-FF
Female to Female, 1.0m Long	40-970-404-1m-FF
Female to Female, 2.0m Long	40-970-404-2m-FF

Note: Other cable lengths can be supplied.

Cable Assy - Female to Unterminated

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



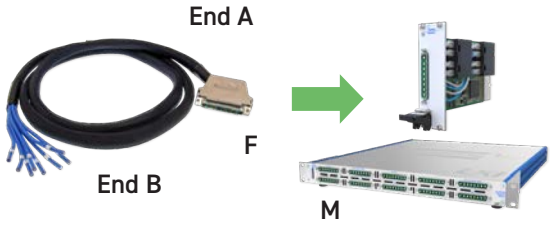
8-Pin Power D-Type Unterminated Cable Assembly

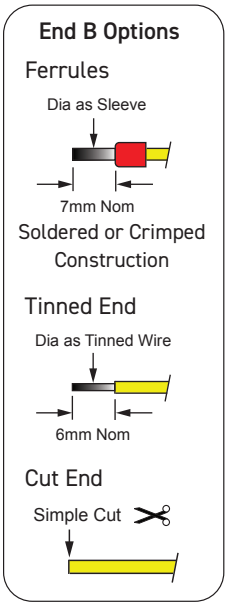
Technical Specification

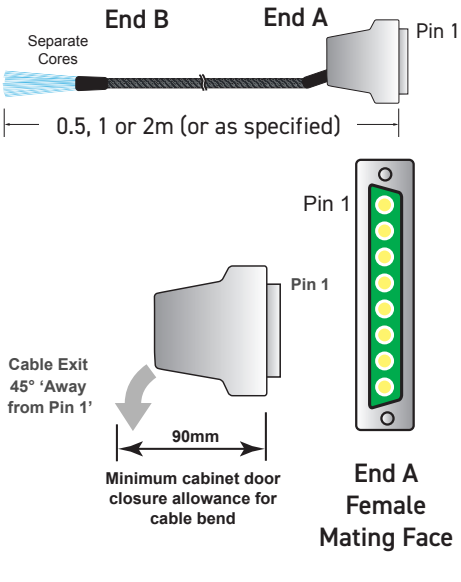
Connector Type (End A):	8-Pin D-Subminiature
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Unterminated End (End B):	
Free Wire Length	130mm nominal
Individual Wire Labelling	To connector pins. A white/black screen pigtail is also included
Wire End Options	Ferrules, Tinned, Cut End
Maximum Current	40A
Maximum Voltage	350VDC/350VAC peak
Insulation Resistance	1000MOhm
Connector:	
Contact Material	Gold plated copper alloy
Contact Resistance	1.0mOhm
Cable Exit	45° (Away from Pin 1)
Overall Size (Approx)	H71 x W16 x D55mm
Cable Type:	Individual wires, screened & sleeved. Tri-rated
Conductor: Material	Copper
Strands	56/0.3 (4mm² csa, 12AWG), 4mm O/D
Resistance	4.95mΩ/m nominal
Insulation	PVC
Outer Sleeve	Polyester
Screened Construction	Yes (Cable screen connected to backshell)
Additional Braided Sleeve	Yes
Cable O/D	13mm
Minimum Bend Radius	25mm
Door Closure Allowance	90mm (see diagram)

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

Product Compatibility







Product Order Codes

8-Pin Power D-Type Cable Assy, 40A, Cut Wires,	
Female to Unterminated, 0.5m Long	40-972-408-0.5m-FU
Female to Unterminated, 1.0m Long	40-972-408-1m-FU
Female to Unterminated, 2.0m Long	40-972-408-2m-FU

Part numbers for other versions:

A008PF4-*-5A***

End B:	Cable Length:
F = Ferrules	050 = 0.5m
T = Tinned End	100 = 1.0m
	200 = 2.0m

Note: Other cable lengths can be supplied.

- 4-Pin Version for High Power Relay Module 40-170
- High Specification, Highly Flexible Cable
- Fully Screened Cable Construction with Strain Relief
- 45 Degree Cable Exit
- Fully Coded Markers to Ensure Easy Connection



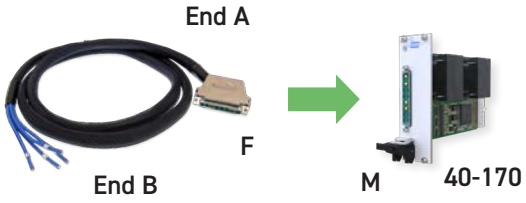
8-Pin Power D-Type Unterminated Cable Assembly
(4-Pin Version)

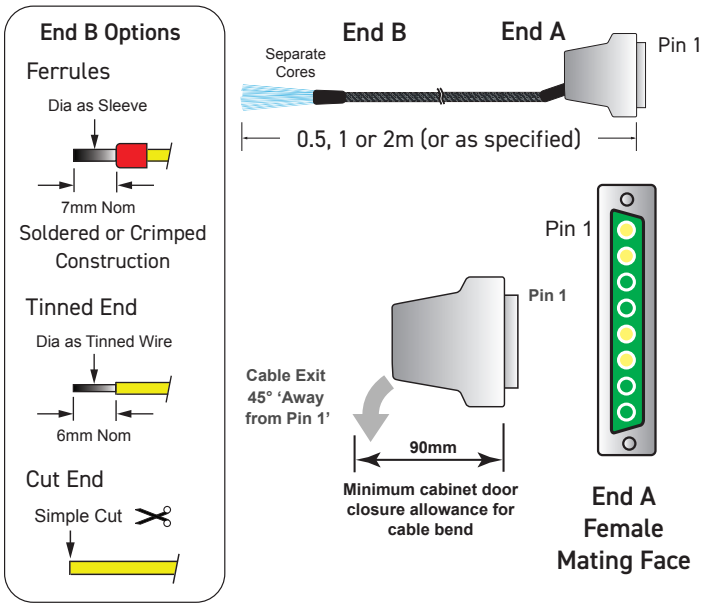
Technical Specification

Connector Type (End A):	8-Pin D-Subminiature (4-Pin version)
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Unterminated End (End B):	
Free Wire Length	130mm nominal
Individual Wire Labelling	To connector pins. A white/black screen pigtail is also included
Wire End Options	Ferrules, Tinned, Cut End
Maximum Current	40A
Maximum Voltage	350VDC/350VAC peak
Insulation Resistance	1000MOhm
Connector:	
Contact Material	Gold plated copper alloy
Contact Resistance	1.0mOhm
Cable Exit	45° (Away from Pin 1)
Overall Size (Approx)	H71 x W16 x D55mm
Cable Type:	Individual wires, screened & sleeved. Tri-rated
Conductor: Material	Copper
Strands	56/0.3 (4mm² csa, 12AWG), 4mm O/D
Resistance	4.95mΩ/m nominal
Insulation	PVC
Outer Sleeve	Polyester
Screened Construction	Yes (Cable screen connected to backshell)
Additional Braided Sleeve	Yes
Cable O/D	13mm
Minimum Bend Radius	25mm
Door Closure Allowance	90mm (see diagram)

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

Product Compatibility





Product Order Codes

8-Pin Power D-Type Cable Assy, 40A, Cut Wires,	
Female to Unterminated, 0.5m Long	40-972-404-0.5m-FU
Female to Unterminated, 1.0m Long	40-972-404-1m-FU
Female to Unterminated, 2.0m Long	40-972-404-2m-FU

Part numbers for other versions:

A008PF4-*-6A***

- End B: F = Ferrules, T = Tinned End
- Cable Length: 050 = 0.5m, 100 = 1.0m, 200 = 2.0m

Note: Other cable lengths can be supplied.

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

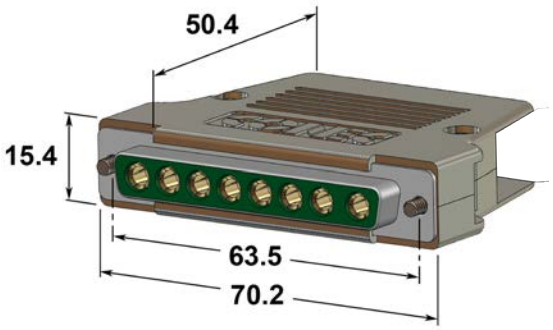
This accessory is designed to allow users to directly terminate with soldered connections to the connector.

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:	8-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	40A
Maximum Voltage	350VDC or 350VAC peak
Cable Exit:	45°
Cable Exit Size	13mm dia
Overall Size (Approx)	H71 x W16 x D55mm
8-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	1.0mOhm
Wire Connection:	
Maximum Wire Size	12AWG
Recommended Insulation	Tri-rated PVC
Additional Cable Clamp	Yes (in backshell)

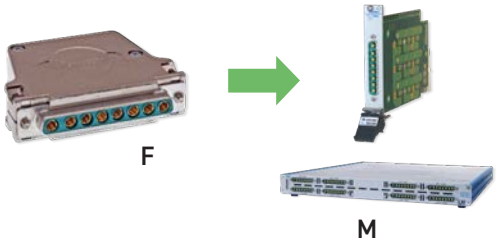


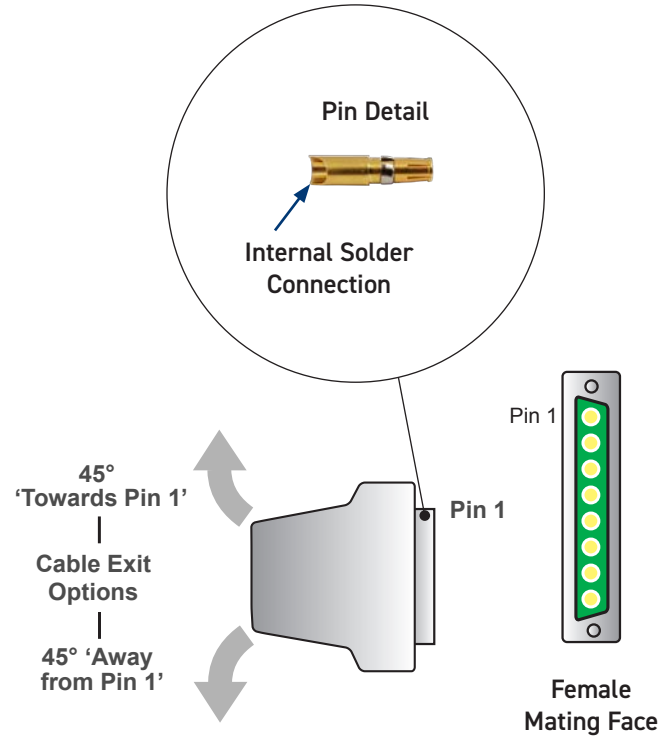
Connector Dimensions



8-Pin Power D-Type Cable Connector with Backshell

Product Compatibility





Product Order Codes

8-Pin Power D-Type Connector, 40A, Solder Bucket,	
With Backshell, Female	40-960-008-F
Without Backshell, Female	92-960-008-F

- 4-Pin Version for High Power Relay Module 40-170
- Connector only or Connector and Backshell
- Cable Clamp in Backshell
- Soldered Cable Termination

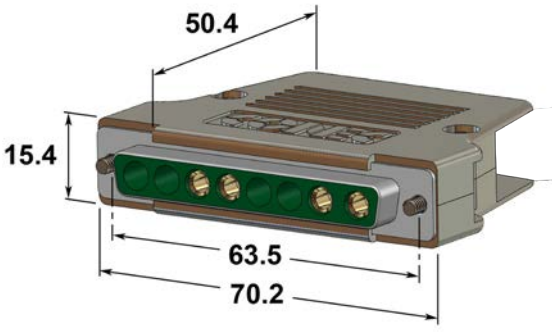
This accessory is designed to allow users to directly terminate with soldered connections to the connector.

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:	8-Pin D-Subminiature (4-Pin version)
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	40A
Maximum Voltage	350VDC or 350VAC peak
Cable Exit:	45°
Cable Exit Size	13mm dia
Overall Size (Approx)	H71 x W16 x D55mm
8-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	1.0mOhm
Wire Connection:	
Maximum Wire Size	12AWG
Recommended Insulation	Tri-rated PVC
Additional Cable Clamp	Yes (in backshell)

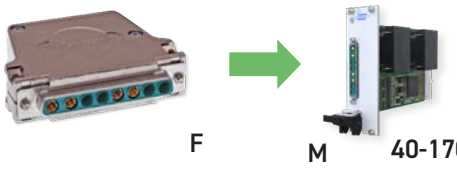


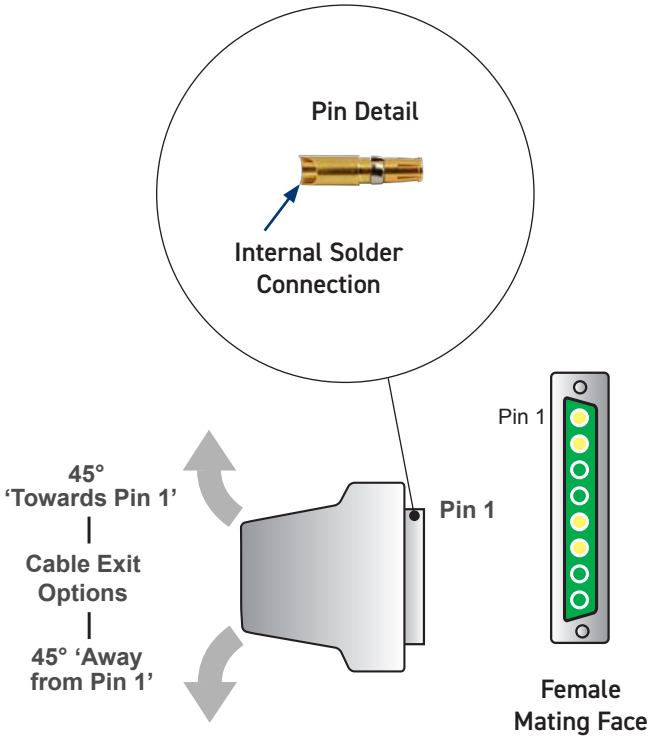
Connector Dimensions



8-Pin Power D-Type Cable Connector with Backshell (4-Pin Version)

Product Compatibility





Product Order Codes

4-Pin Version of 8-Pin Power D-Type Connector, 40A, Solder Bucket,	
With Backshell, Female	40-960-004-F
Without Backshell, Female	92-960-004-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.



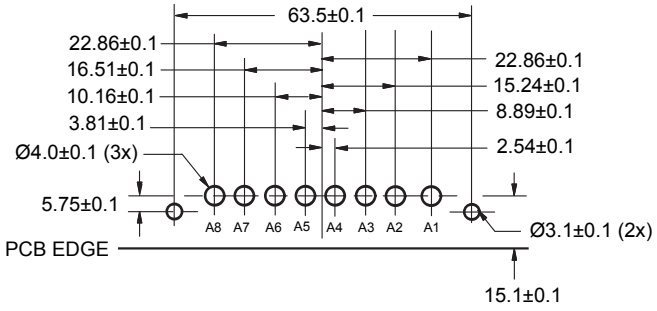
8-Pin Power D-Type PCB Connector

Technical Specification

Connector Type:	8-Pin D-Subminiature
Gender	Female
Securing Method	4-40 UNC screwlocks, female
PCB Mounting	Right angle PCB mount, solder
Connector Ratings:	
Maximum Current	20A each pin
Maximum Voltage	250V working
8-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	1mOhm (IEC60807-2)
PCB Legs:	
Effective Leg Length	7.6mm nom (See diagram)

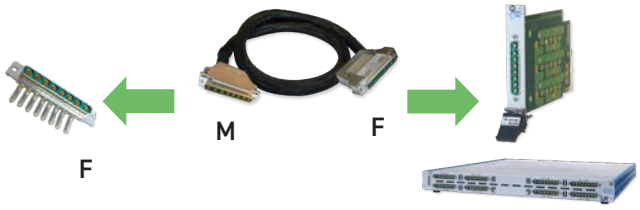


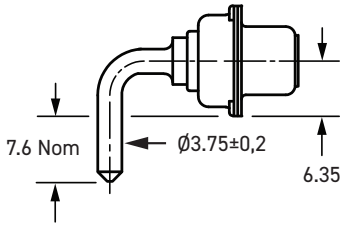
An Individual 40A Female Contact



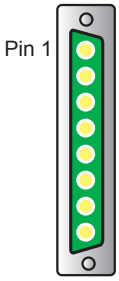
PCB Footprint of 8-Pin Right Angle Female Connector
(Connector Side - Not to Scale)

Product Compatibility





Effective Leg Length



Female
Mating Face

Product Order Codes

8-Pin Power D-Type Connector, 20A, Right Angle PCB Mount, Female	40-963-008-RF

Note: 8 off female socket contacts are supplied with the connector kit.

- 4-Pin Version for High Power Relay Module 40-170
- 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.



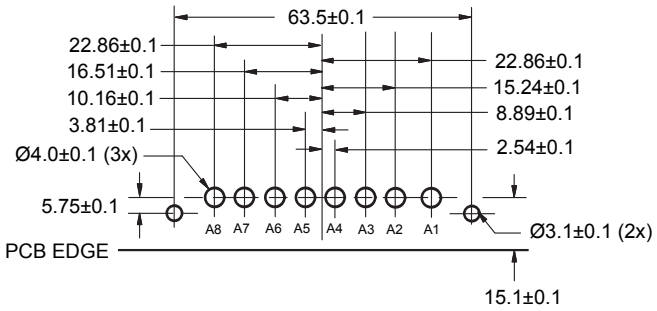
8-Pin Power D-Type PCB Connector (4-Pin Version)

Technical Specification

Connector Type:	8-Pin D-Subminiature, (4-Pin Version)
Gender	Female
Securing Method	4-40 UNC screwlocks, female
PCB Mounting	Right angle PCB mount, solder
Connector Ratings:	
Maximum Current	20A each pin
Maximum Voltage	250V working
8-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	1mOhm (IEC60807-2)
PCB Legs:	
Effective Leg Length	7.6mm nom (See diagram)

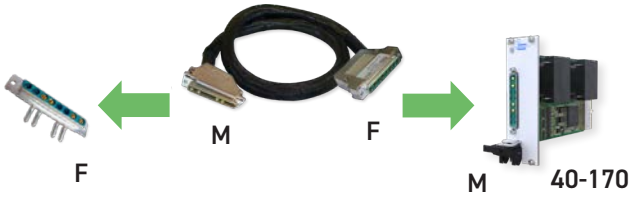


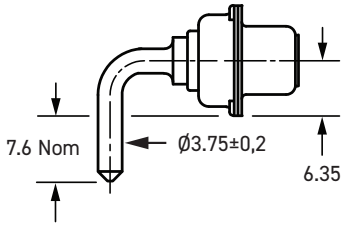
An Individual 40A Female Contact



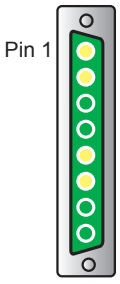
PCB Footprint of 8-Pin Right Angle Female Connector (Connector Side - Not to Scale)

Product Compatibility





Effective Leg Length



Female Mating Face

Product Order Codes

4-Pin Version of 8-Pin Power D-Type Connector, 20A, Right Angle PCB Mount, Female	40-963-004-RF

Note: 4 off female socket contacts are supplied with the connector kit.

- 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.



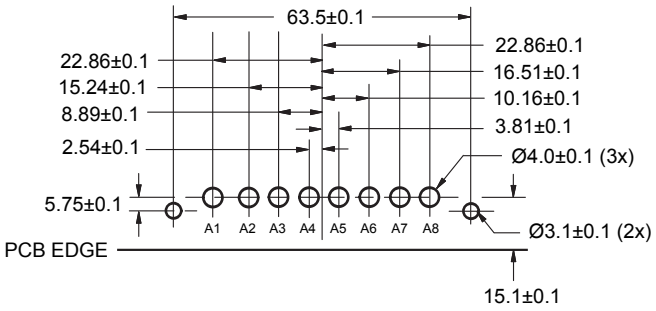
8-Pin Power D-Type PCB Connector

Technical Specification

Connector Type:	8-Pin D-Subminiature
Gender	Male
Securing Method	4-40 UNC screwlocks, female
PCB Mounting	Right angle PCB mount, solder
Connector Ratings:	
Maximum Current	20A each pin
Maximum Voltage	250V working
8-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	1mOhm (IEC60807-2)
PCB Legs:	
Effective Leg Length	7.6mm nom (See diagram)

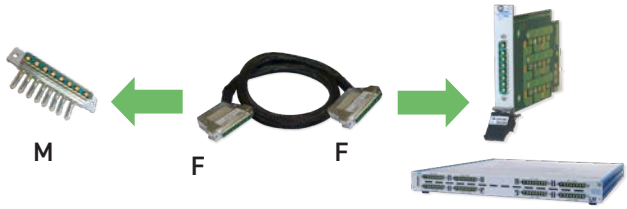


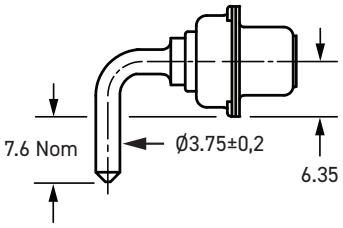
An Individual 40A Male Contact



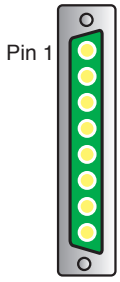
PCB Footprint of 8-Pin Right Angle Male Connector
(Connector Side - Not to Scale)

Product Compatibility





Effective Leg Length



Male
Mating Face

Product Order Codes

8-Pin Power D-Type Connector, 20A, Right Angle PCB Mount, Male	40-963-008-RM

Note: 8 off male contacts are supplied with the connector kit.

- 4-Pin Version for High Power Relay Module 40-170
- 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.



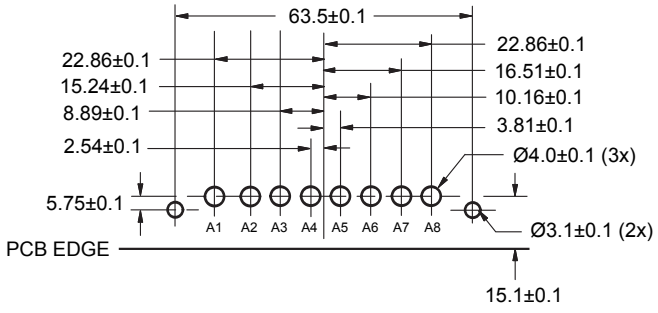
8-Pin Power D-Type PCB Connector (4-Pin Version)

Technical Specification

Connector Type:	8-Pin D-Subminiature, (4-Pin version)
Gender	Male
Securing Method	4-40 UNC screwlocks, female
PCB Mounting	Right angle PCB mount, solder
Connector Ratings:	
Maximum Current	20A each pin
Maximum Voltage	250V working
8-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	1mOhm (IEC60807-2)
PCB Legs:	
Effective Leg Length	7.6mm nom (See diagram)

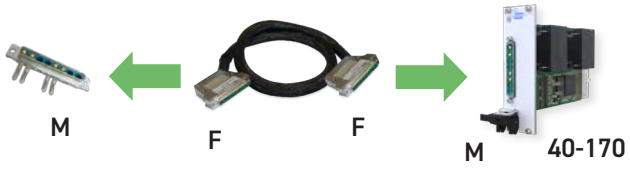


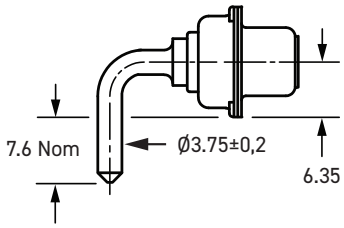
An Individual 40A Male Contact



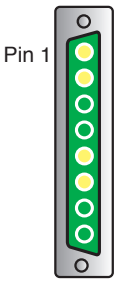
PCB Footprint of 8-Pin Right Angle Male Connector
(Connector Side - Not to Scale)

Product Compatibility





Effective Leg Length



Male
Mating Face

Product Order Codes

4-Pin Version of 8-Pin Power D-Type Connector, 20A, Right Angle PCB Mount, Male	40-963-004-RM

Note: 4 off male contacts are supplied with the connector kit.

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.

Cable Assy - Male to Male

90-012D

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

Technical Specification

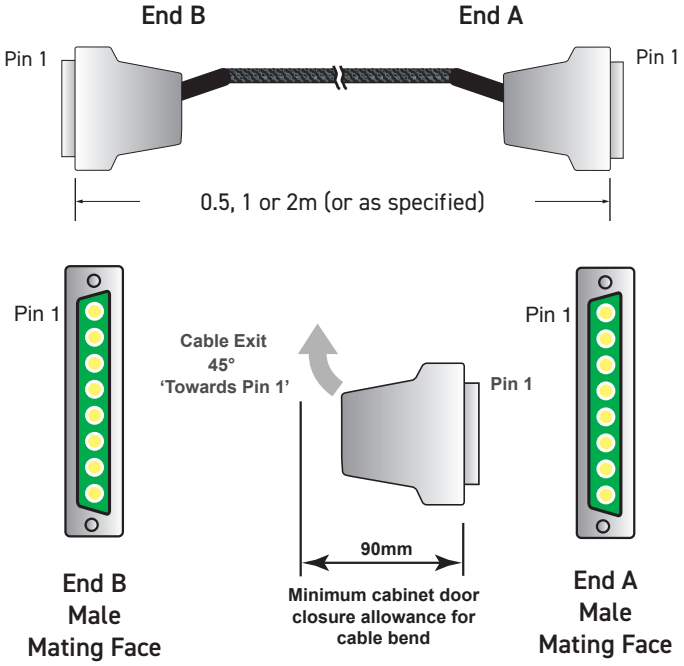
Connector Type (End A):	8-Pin D-Subminiature
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	8-Pin D-Subminiature
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Maximum Current	40A
Maximum Voltage	350VDC/350VAC peak
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	1.0mOhm
Cable Exit:	45° (Away from Pin 1)
Overall Size (Approx)	H71 x W16 x D55mm
Cable Type:	Individual wires, screened & sleeved. Tri-rated
Conductor: Material	Copper
Strands	56/0.3 (4mm² csa, 12AWG), 4mm O/D
Resistance	4.95mΩ/m nominal
Insulation	PVC
Outer Sleeve	Polyester
Screened Construction	Yes (Cable screen connected to backshells)
Additional Braided Sleeve	Yes
Cable O/D	13mm
Minimum Bend Radius	25mm
Door Closure Allowance	90mm (see diagram)

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



8-Pin Power D-Type Cable Assembly

Product Compatibility



Product Order Codes

8-Pin Power D-Type Cable Assy, 40A, Male to Male,	
0.5m Long	40-970-408-0.5m-MM
1.0m Long	40-970-408-1m-MM
2.0m Long	40-970-408-2m-MM

Note: Other cable lengths can be supplied.

Cable Assy - Male to Unterminated

90-012D

- 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):	8-Pin D-Subminiature
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Unterminated End (End B):	
Free Wire Length	130mm nominal
Individual Wire Labelling	To connector pins. A white/black screen pigtail is also included
Wire End Options	Ferrules, Tinned, Cut End
Maximum Current	40A
Maximum Voltage	350VDC/350VAC peak
Insulation Resistance	1000MOhm
Connector:	
Contact Material	Gold plated copper alloy
Contact Resistance	1.0mOhm
Cable Exit	45° (Away from Pin 1)
Overall Size (Approx)	H71 x W16 x D55mm
Cable Type:	Individual wires, screened & sleeved. Tri-rated
Conductor: Material	Copper
Strands	56/0.3 (4mm² csa, 12AWG), 4mm O/D
Resistance	4.95mΩ/m nominal
Insulation	PVC
Outer Sleeve	Polyester
Screened Construction	Yes (Cable screen connected to backshell)
Additional Braided Sleeve	Yes
Cable O/D	13mm
Minimum Bend Radius	25mm
Door Closure Allowance	90mm (see diagram)

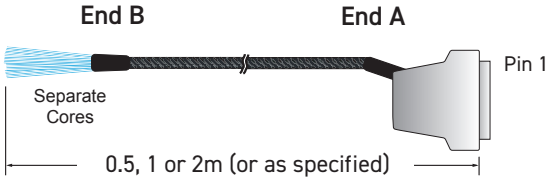
Note: When using this product please ensure appropriate electrical safety.

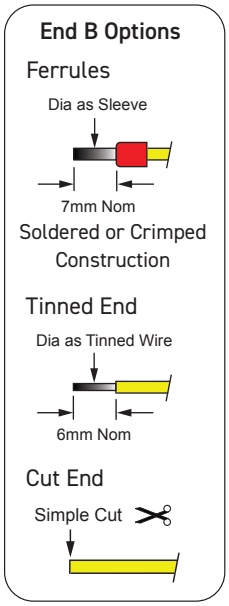
This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product

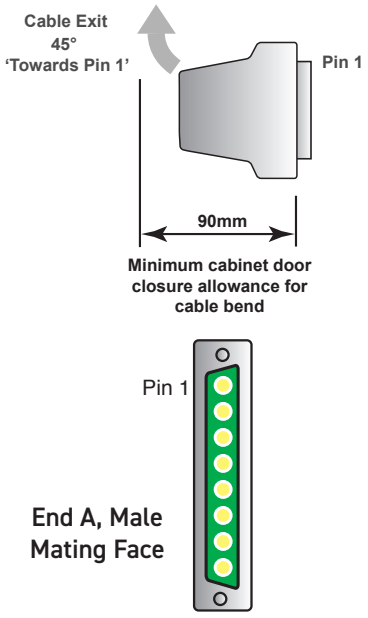


8-Pin Power D-Type Unterminated Cable Assembly

Product Compatibility







Product Order Codes

8-Pin Power D-Type Cable Assy, 40A, Cut Wires,	
Male to Unterminated, 0.5m Long	40-972-408-0.5m-MU
Male to Unterminated, 1.0m Long	40-972-408-1m-MU
Male to Unterminated, 2.0m Long	40-972-408-2m-MU

Part numbers for other versions:

A008PM5-*-5A***

End B:	Cable Length:
F = Ferrules	050 = 0.5m
T = Tinned End	100 = 1.0m
	200 = 2.0m

Note: Other cable lengths can be supplied.

Cable Connector - Male

90-012D

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

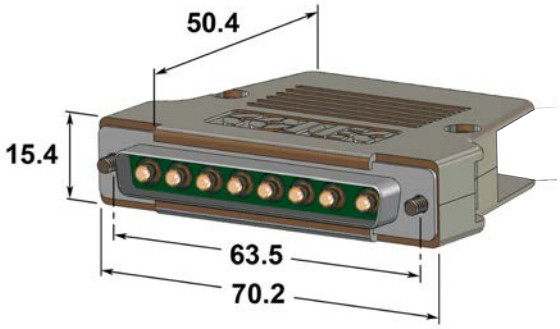
This accessory is designed to allow users to directly terminate with soldered connections to the connector.

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.

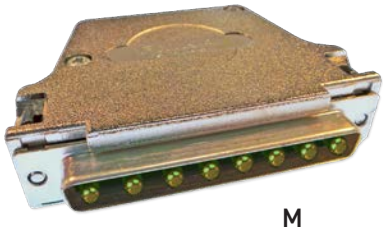
Technical Specification

Connector Type:	8-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	40A
Maximum Voltage	350VDC or 350VAC peak
Cable Exit:	45°
Cable Exit Size	13mm dia
Overall Size (Approx)	H71 x W16 x D55mm
8-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	1.0mOhm
Wire Connection:	
Maximum Wire Size	12AWG
Recommended Insulation	Tri-rated PVC
Additional Cable Clamp	Yes (in backshell)



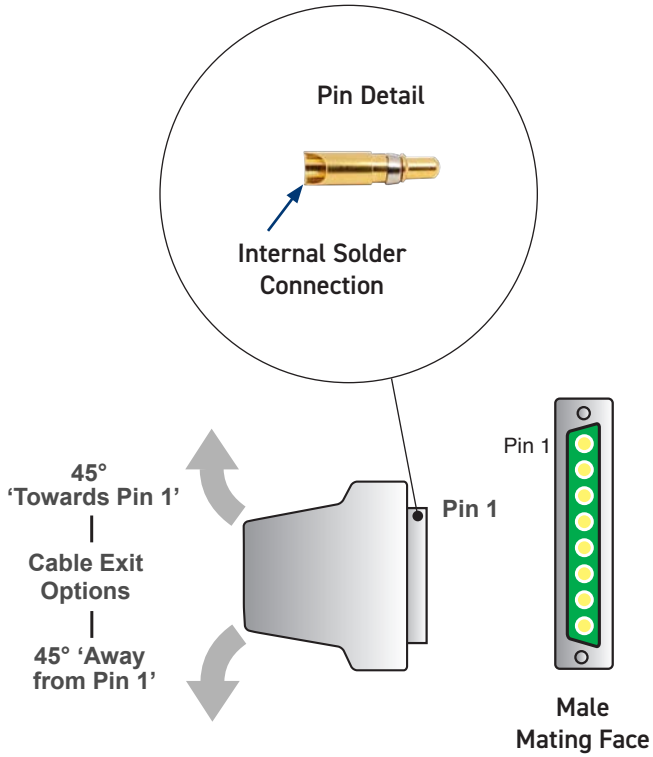
Connector Dimensions

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



M

8-Pin Power D-Type Cable Connector with Backshell



Product Order Codes

8-Pin Power D-Type Connector, 40A, Solder Bucket,	
With Backshell, Male	40-960-008-M
Without Backshell, Male	92-960-008-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.

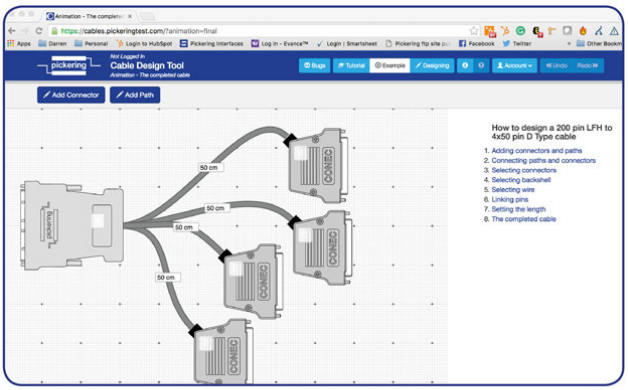
We offer a fast turn round of custom items to keep your ordering and integration time scales to a minimum.

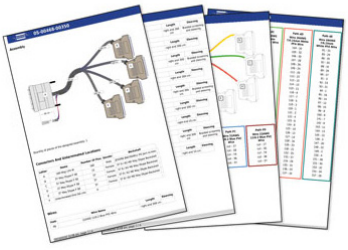


Pickering's Cable Design Tool

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

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