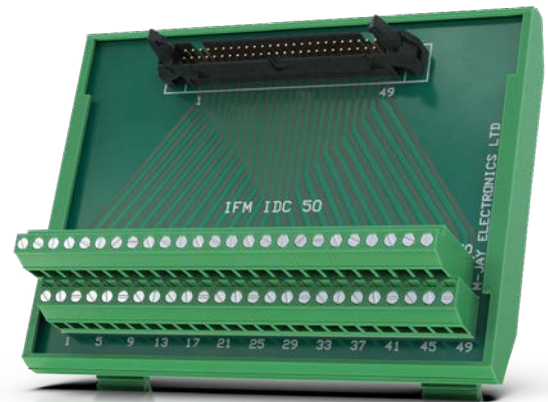


- Voltage to 200 V, 1 A
- Mating Connectors
- Breakouts
- 0.100 (2.54 mm) Pitch
- Guaranteed Compatibility



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 connectors, breakouts and pcb connectors.

200-Pin LFH to 4x 50-Pin IDC cable assemblies can be found on data sheet 90-002D.

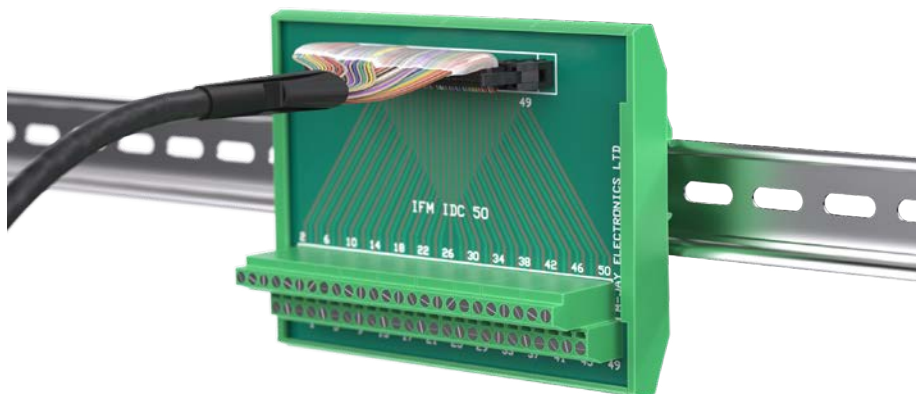
Breakouts

Remote breakouts at the end of a cable assembly can provide a useful termination solution. Breakouts convert the 50-pin IDC connections to an array of screw terminals.

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



Example Connection of 50-Pin Ribbon Header to 50-Pin IDC Connection

Breakouts/Connectors

Description		Gender	Type	Product Order Code and Part Number	Page
	Breakout with DIN Rail Mount, 50-Pin IDC, 1A, Screw Terminal	Male	DIN Rail Mount	40-967-550-M	3
	Cable Connector 50-Pin IDC for Ribbon Cable, 1A	Female	With Strain Relief Bar	40-961-550-F	4
	Cable Connector 50-Pin IDC for Ribbon Cable, 1A	Male	Without Strain Relief Bar	40-961-550-M	6
	PCB Connector 50-Pin IDC, 1A	Male	Straight PCB Mount	40-963-550-SM	7

Custom Termination

Customization Possibilities [9](#)

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

- For Connection at Cable End
- Simple to Use Rising Cage Screw Clamp Termination
- DIN Rail Mounted

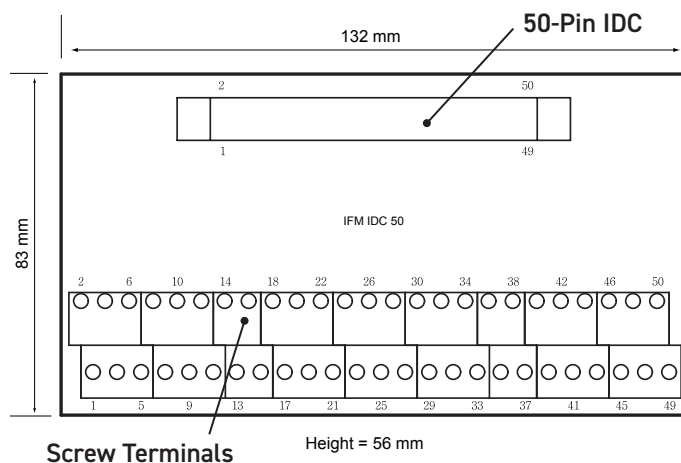
Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

This accessory is designed to be used for terminating a 50-Pin ribbon cable connector. A 200-Pin to quad 50-Pin ribbon header cable accessory is available that allows it to be used to terminate a 200-Pin connector. The accessory is suitable for mounting on DIN rails. The ribbon cable termination includes a strain relief.

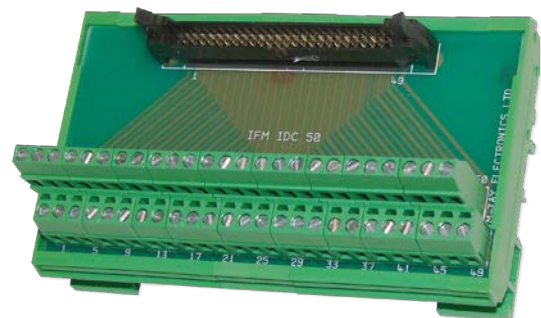
When using this product please ensure appropriate electrical safety precautions are observed.

Technical Specification

Connector Type:	50-Pin IDC
Gender	Male
Securing Method:	Latch clips
Wire Connection	Rising cage screw terminals
Breakout Ratings:	
Maximum Current	1A
Maximum Voltage	200 VDC
Securing Method	Suitable for securing to DIN rails.
Overall Size (Approx)	H56 x W101 x D83 mm
50-Pin IDC:	
Contact Material	-
Contact Resistance	<20 mOhm
Screw Terminals:	
Maximum Wire Size	12AWG
Additional Cable Clamp	No

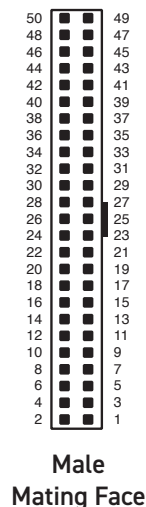
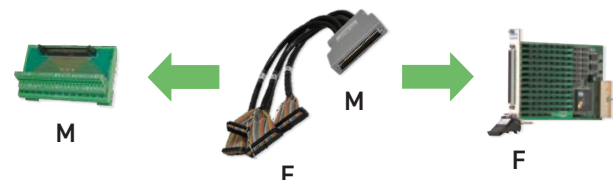


50-Pin IDC Breakout 40-967-550-M



50-Pin IDC Breakout

Product Compatibility



Male Mating Face

Product Order Codes

50-Pin IDC Breakout with DIN Rail Mount, 1A, Screw Terminal, Male

[40-967-550-M](#)

- For Ribbon Cable Connection
- Centre and Military Polarized
- 0.100 (2.54 mm) Pitch
- Mates with 0.025 Inch Square or Round Pins
- Accepts 28 AWG Ribbon Wires
- Snap-on Strain Relief

Ideal for user created termination schemes where the termination is to be remotely connected by a ribbon cable. Mating 50-Pin connectors are also detailed in this data sheet.

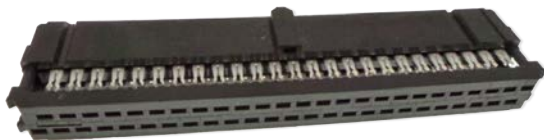
Technical Specification

Connector Type:	50-Pin IDC, 0.1" (2.54 mm) pitch
Gender	Female
Securing Method:	As mating connector
Wire Connection	IDC
Connector Ratings:	
Maximum Current	1A
Maximum Voltage	200 V DC
Cable Exit:	Side
Cable Exit Size	-
Overall Size (Approx)	See drawing
Contact Material	Phosphor bronze with gold flash
Contact Resistance	<20 mOhm
Wire Connection:	
Maximum Wire Size	28AWG
Recommended Wire	0.05" (1.27 mm) pitch ribbon cable
Additional Cable Clamp	Yes - Strain relief bar

Note: A dimensional drawing can be found on the following page.

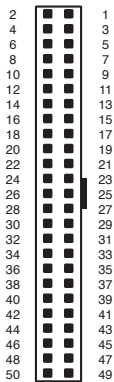
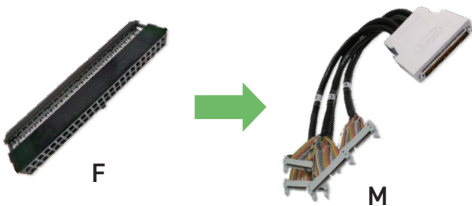


Connector and Strain Relief bar



Rear View without Strain Relief bar

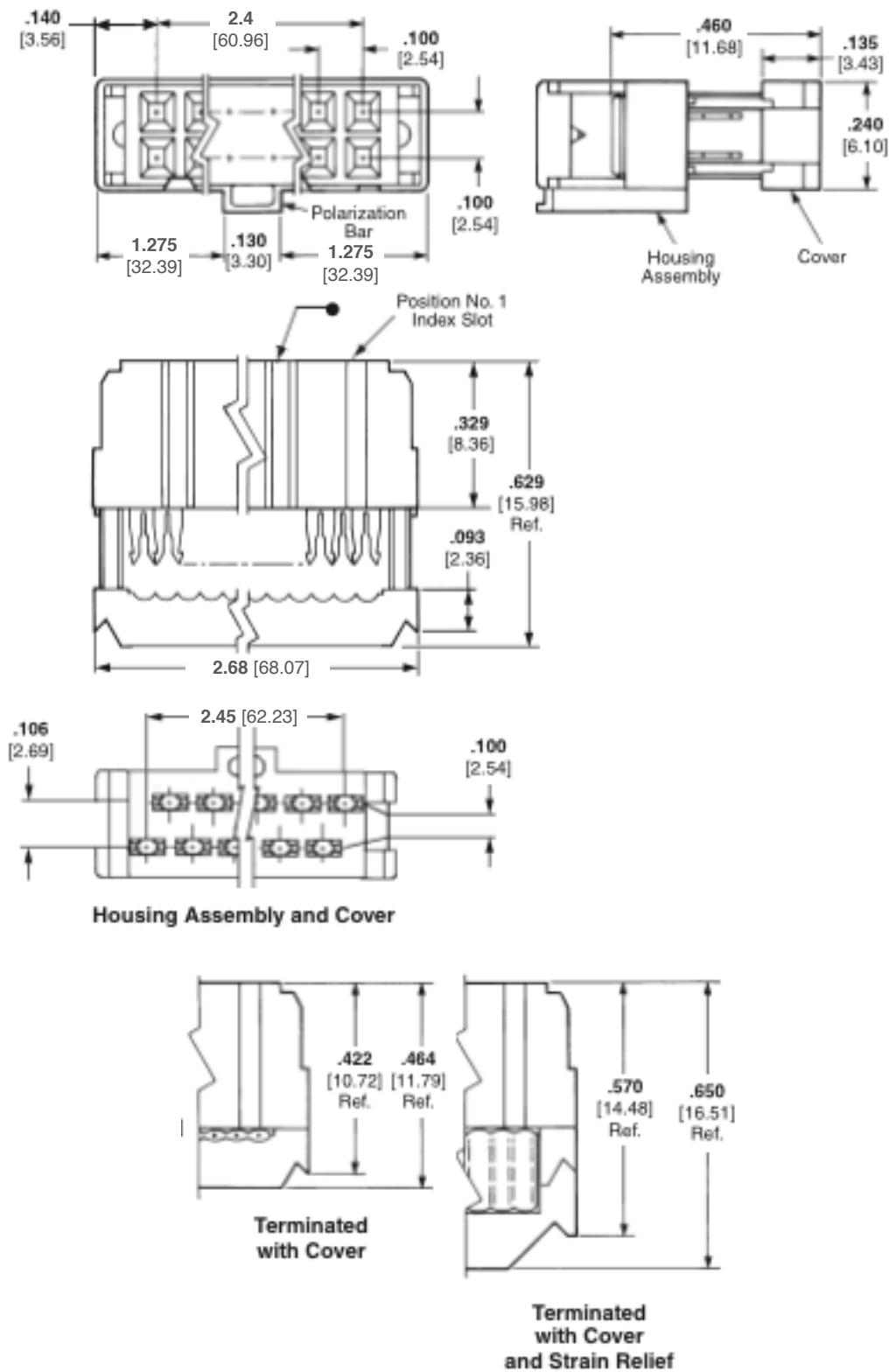
Product Compatibility



Female Mating Face

Product Order Codes

50-Pin IDC Connector for Ribbon Cable, 1A, Female [40-961-550-F](#)



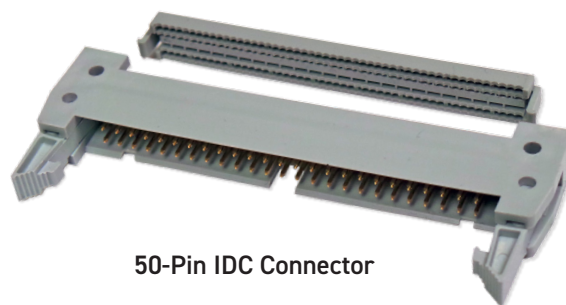
Connector Dimensions - 50-Pin IDC for Ribbon Cable (40-961-550-F)

- For Ribbon Cable Connection
- Centre and Military Polarized
- 0.100 (2.54 mm) Pitch
- Mates with 1.27 mm Pitch Ribbon Cable
- Accepts 28 AWG Ribbon Wires

Ideal for user created termination schemes where the termination is to be remotely connected by a ribbon cable. Mating 50-Pin connectors are also detailed in this data sheet.

Technical Specification

Connector Type:	50-Pin IDC, 0.1" (2.54 mm) pitch
Gender	Male
Securing Method:	Latch clips
Wire Connection	IDC
Connector Ratings:	
Maximum Current	1A
Maximum Voltage	200 V DC
Cable Exit:	Side
Cable Exit Size	-
Overall Size (Approx)	See drawing
Contact Material	Copper alloy with selective gold flash
Contact Resistance	<20 mOhm
Wire Connection:	
Maximum Wire Size	28AWG
Recommended Wire	0.05" (1.27 mm) pitch ribbon cable
Additional Cable Clamp	No

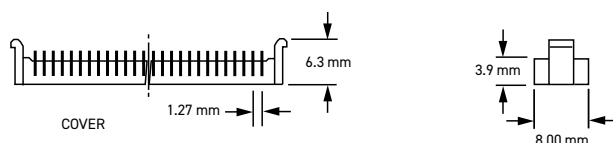
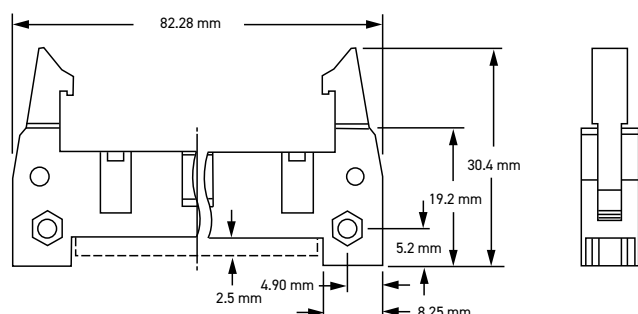
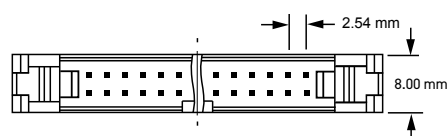
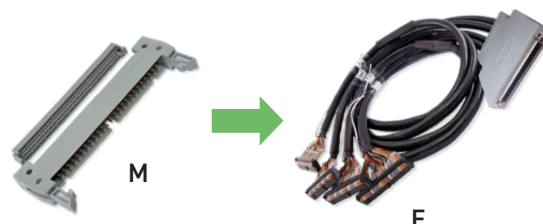


50-Pin IDC Connector

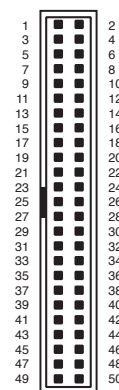


Angled Rear View

Product Compatibility



Connector Dimensions



Male Mating Face

Product Order Codes

50-Pin IDC Connector for Ribbon Cable, 1A, Male

40-961-550-M

- Straight Interface to PCB
- Strain Relief and Latch Clips
- Ideal for User Created Termination Solutions

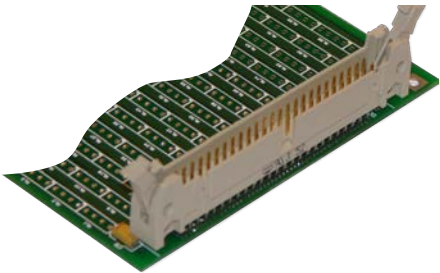
This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

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

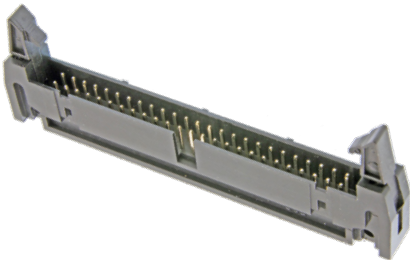
Technical Specification

Connector Type:	50-Pin IDC, 0.1" (2.54 mm) pitch
Gender	Male
Securing Method	Latch clip
PCB Mounting	Straight PCB mount, solder
Connector Ratings:	
Maximum Current	1A
Maximum Voltage	200 V DC
50-Pin IDC:	
Contact Material	-
Contact Resistance	<20 mOhm
PCB Legs:	
Leg Length	See drawing

Note: A dimensional drawing can be found on the following page.

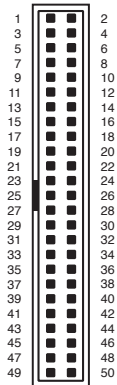
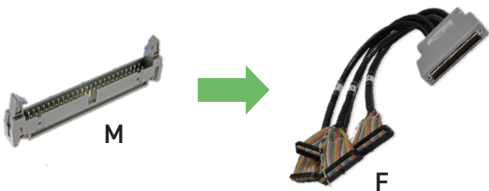


The Connector on a PCB



50-Pin IDC Connector

Product Compatibility

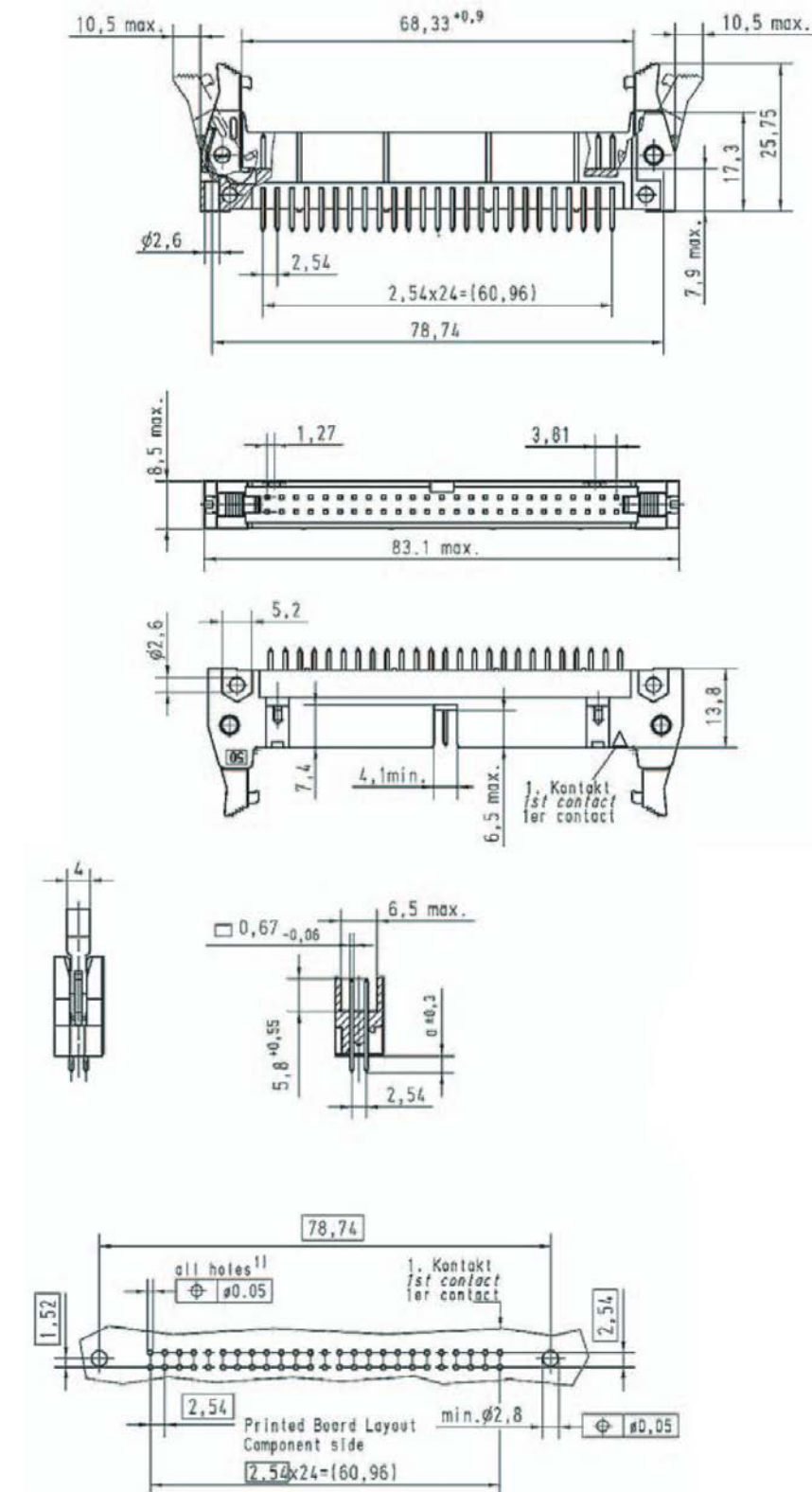


Male
Mating Face

Product Order Codes

50-Pin IDC Connector, 1 A, Straight PCB Mount,
Male

40-963-550-SM



Connector Dimensions - 50-Pin IDC, Straight PCB Mount (40-963-550-SM)

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.

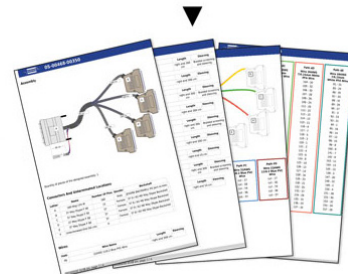
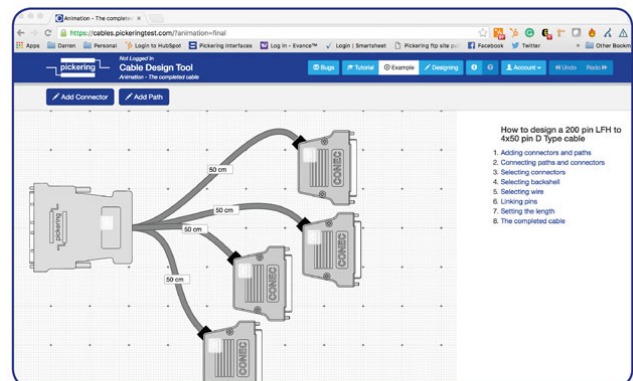
We offer a fast turn round of custom items to keep your ordering and integration time scales to a minimum.



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