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Find the *Pickering 40-971-200-1M-R3* at our website: ***Click HERE***

200-Pin LFH Connector Accessories

- 150VDC, 1A
- Mating Connectors
- Connector Hoods
- Connector Blocks
- Cable Assemblies
- Guaranteed Compatibility



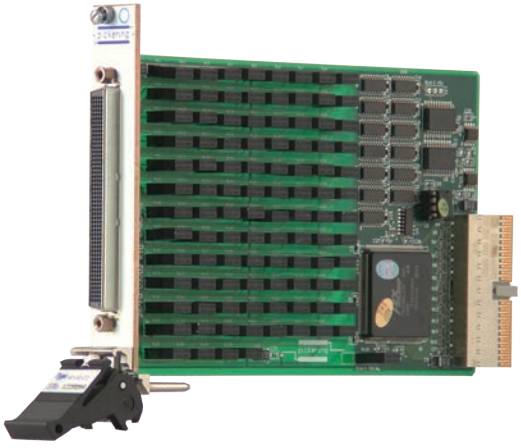
The 200-Pin LFH connector is used on switching products to provide a high density 1A connector solution that is suitable for use to 150V. Pickering Interfaces has developed a full range of standard connection solutions to simplify the task of integrating product into a test system. The high density and skill levels involved in terminating this connector means that we do strongly recommend that users use Pickering Interfaces solutions.

Connector to Connector cable assemblies provide a simple way of connecting the product to the user's remote matching connection. Connectors to unterminated solutions allow the user to connect directly to the product connector and wire directly into a remote UUT. Cable assemblies are offered in various lengths to match most user requirements.

For unterminated versions of cables we offer tinned copper ends.

For users wishing to develop their own cabling solutions, we offer mating connectors and connector hoods which allow users to create either their own cable based solutions, or a PCB header solution. Connector Blocks directly terminate the module connector and convert the connection to arrays of screw terminal blocks.

Pickering Interfaces can manufacture custom connector accessories to suit any application, if you do not see what you need then contact your Pickering Interfaces sales office with information on your requirements and let us solve your connection problems.



Sales Offices and Support

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Contents - Mating Accessories For Pickering Products

Cable Assemblies				
View	Description	End 1	End 2	Page
	Cable Assy, 200-Pin LFH, 1A, 0.5m, 1m and 2m Custom lengths by quotation	Male, with Male Screwlocks	Female, with Male Screwlocks	Page 4
			Male, with Male Screwlocks	Page 5
	Extender Cable Assy, 200-Pin LFH, 1A, 0.5m, 1m and 2m Custom lengths by quotation	Male, with Male Screwlocks	Female, with Female Screwlocks	Page 6
	Cable Assy, 200-Pin LFH, 1A, 0.5m, 1m and 2m Custom lengths by quotation	Male, with Male Screwlocks	Unterminated with Tinned Ends	Page 7
	Cable Assy, 200-Pin LFH, 1A, to 50-Pin Ribbon, 0.5m, 1m and 2m Custom lengths by quotation	Male, with Male Screwlocks	4 x 50-Pin Ribbon, Female	Page 9
			4 x 50-Pin Ribbon, Male	Page 11
	Cable Assy, 200-Pin LFH, 1A, to 50-Pin D-Type, 0.5m, 1m and 2m Custom lengths by quotation	Male, with Male Screwlocks	4 x 50-Pin D-Type, Female, with Female Screwlocks	Page 13
			4 x 50-Pin D-Type, Male, with Male Screwlocks	

Male Connector Blocks/Connectors				
View	Description	Type	Gender	Page
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	PCI Connector Block, 200-Pin LFH, 1A, Screw Terminal.	With Backshell		Page 17
	Cable Connector 200-Pin LFH, 1A, Solder-Pin, 4-40 UNC Male Screwlocks	With or Without Backshell		Page 18
	PCB Connector 200-Pin LFH, 1A, Female Screwlocks	Straight PCB Mount		Page 19

Female PCB Connectors				
View	Description	Type	Gender	Page
	PCB Connector 200-Pin LFH, 1A, 4-40 UNC Female Screwlocks	Right Angle PCB Mount	Female	Page 20

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

Contents - Additional 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 Assemblies				
View	Description	End 1	End 2	Page
	Cable Assy, 200-Pin LFH, 1A 0.5m, 1m and 2m Custom lengths by quotation	Female, with Male Screwlocks	Female, with Male Screwlocks	Page 22
		Female, with Female Screwlocks	Female, with Female Screwlocks	Page 23
	Cable Assy, 200-Pin LFH to Unterminated, 1A, 0.5m, 1m and 2m Custom lengths by quotation	Female, with Female Screwlocks	Unterminated with Tinned Ends	Page 24
	Cable Assy, 200-Pin LFH, 1A, to 50-Pin Ribbon, 0.5m, 1m and 2m Custom lengths by quotation	Female, with Female Screwlocks	4 x 50-Pin Ribbon, Female	Page 26
			4 x 50-Pin Ribbon, Male	Page 28

Connector Blocks/Connectors				
View	Description	Type	Gender	Page
	Connector Block, 200-Pin LFH, 1A, Screw Terminal. 4-40 UNC Female Screwlocks	With or Without Backshell	Female	Page 30
	Cable Connector 200-Pin LFH, 1A, Solder-Pin, M3 Male Screwlocks	With Backshell	Male	Page 31
	Cable Connector 200-Pin LFH, 1A, Solder to PCB, 4-40 UNC Male Screwlocks	With or Without Backshell	Female	Page 32
	Cable Connector 200-Pin LFH, 1A, Solder to PCB, 4-40 UNC or M3 Female Screwlocks	With or Without Backshell	Female	Page 33
		With Backshell (M3)		

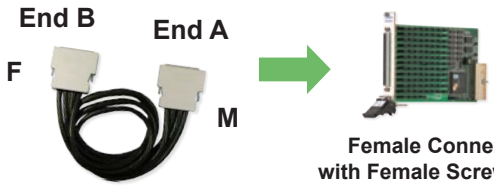
Custom Termination Page 34

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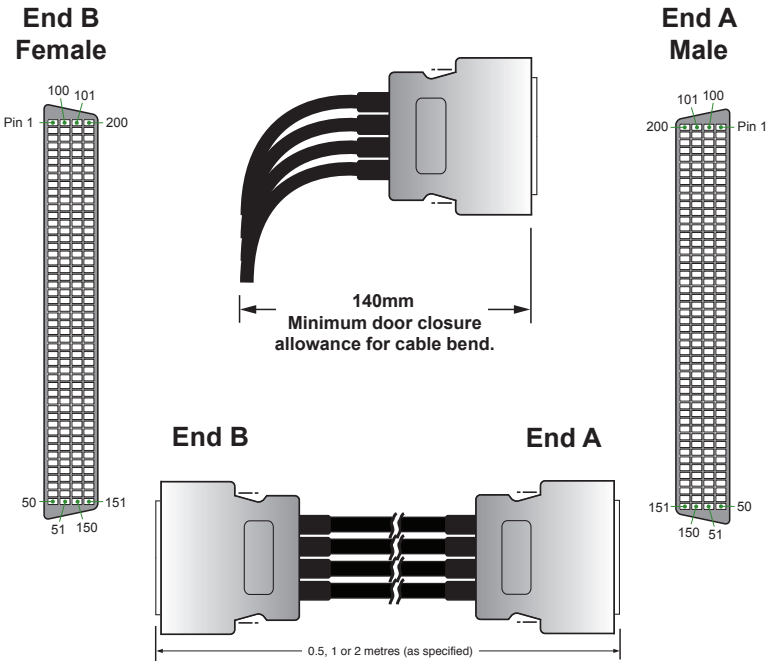
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200-Pin LFH Cable Assembly - Male to Female

- High Specification Cable
- 4 Wire Bundles to Improve Flexibility
- Screened Cable Construction with Strain Relief
- Female Connectors include Male Screwlocks
- End B is Suitable for Connecting to PCB Mount Connectors and Breakouts





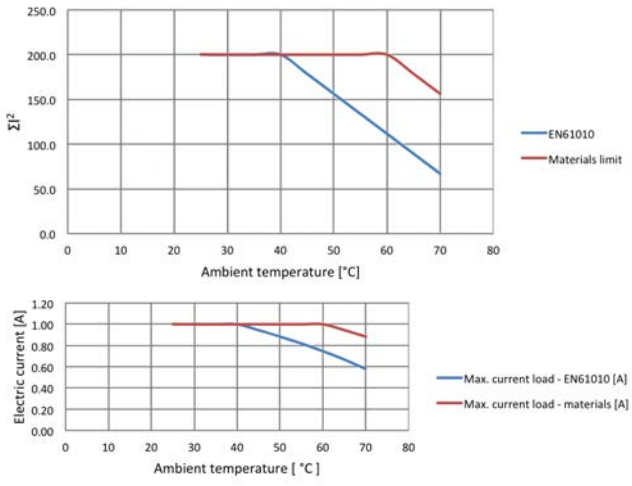


Technical Specification

Connector Type (End A):	200-Pin LFH
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	200-Pin LFH
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150VDC
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold over nickel
Contact Resistance	<20mOhm
Cable Exit	Rear
Overall Size (Approx) Male	H87 x W18 x D84mm
Female	H92 x W18 x D84.7mm
Cable Type:	4 off x 50-Pin twisted pair ribbon cable with twisted pairs of the odd and even wires (1 & 2, 3 & 4, etc) 1.27mm pitch
Conductor: Material	Tinned Copper
Strands	7/36 (28AWG)
Resistance	0.2Ω/m
Insulation	PVC
Outer Sleeve	PVC
Screened Construction	Yes
Additional Braided Sleeve	No
Cable O/D	10mm (Individual cables)
Minimum Bend Radius	25mm
Door Closure Allowance	140mm (see diagram)

Notes:
Other cable lengths can be supplied in multiples of 0.5m.

Characteristic Plots for A200LMR-200LFR-6A100



The top graph shows the permitted ΣI² 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 bottom 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 ΣI² is complied with.

Product Order Codes

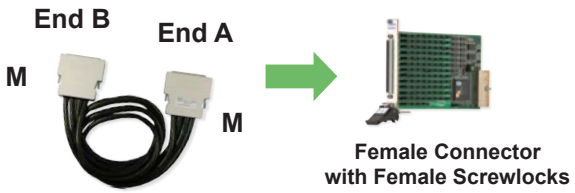
200-Pin LFH Cable Assy, 1A, Male to Female,

0.5m Long	**A200LMR-200LFR-6A050**
1.0m Long	**A200LMR-200LFR-6A100**
2.0m Long	**A200LMR-200LFR-6A200**

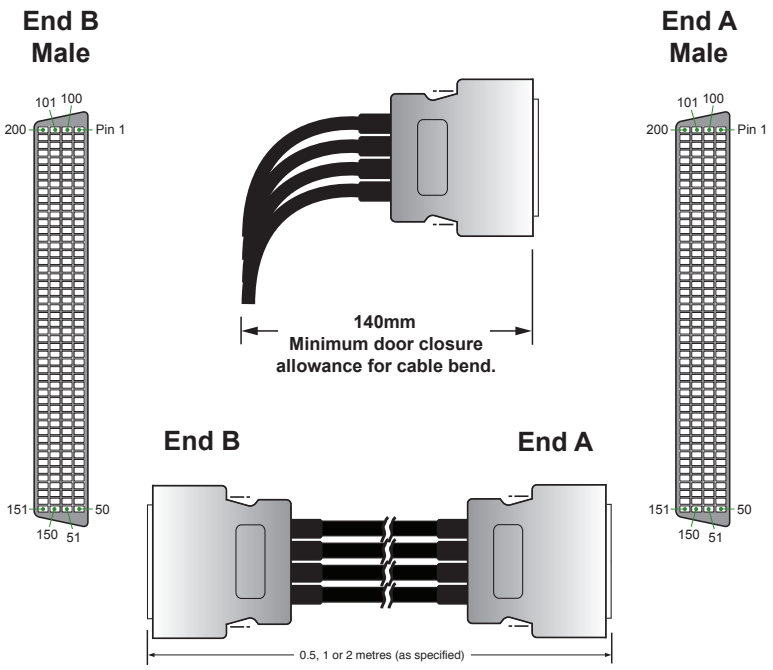
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200-Pin LFH Cable Assembly - Male to Male

- **High Specification Cable**
- **4 Wire Bundles to Improve Flexibility**
- **Strain Relief**
- **Fully Screened Cable Construction**
- **End B is Suitable for Connection to Another Module, or for Connection to a Female Connector with 4-40UNC Female Screwlocks**



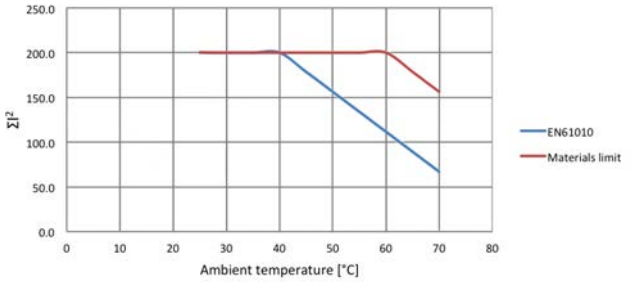


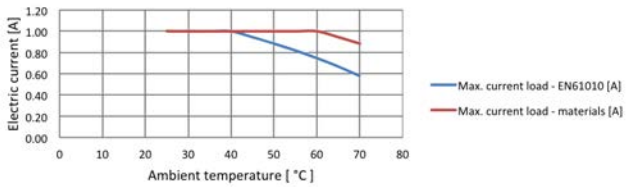


Technical Specification

Connector Type (End A):	200-Pin LFH
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	200-Pin LFH
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150VDC
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold over nickel
Contact Resistance	<20mOhm
Cable Exit	Rear
Overall Size (Approx)	H87 x W18 x D84mm
Cable Type:	4 off x 50-Pin twisted pair ribbon cable with twisted pairs of the odd and even wires (1 & 2, 3 & 4, etc) 1.27mm pitch
Conductor: Material	Tinned Copper
Strands	7/36 (28AWG)
Resistance	0.2Ω/m
Insulation	PVC
Outer Sleeve	PVC
Screened Construction	Yes
Additional Braided Sleeve	No
Cable O/D	10mm (Individual cables)
Minimum Bend Radius	25mm
Door Closure Allowance	140mm (see diagram)
Notes: Other cable lengths can be supplied in multiples of 0.5m.	

Characteristic Plots for 40-970A-200-1m





The top graph shows the permitted ΣI² 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 bottom 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 ΣI² is complied with.

Product Order Codes

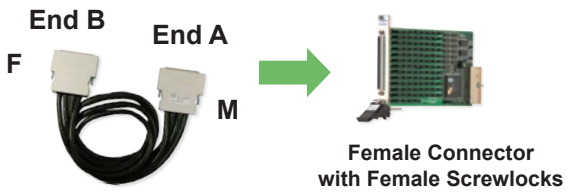
200-Pin LFH Cable Assy, 1A, Male to Male,

0.5m Long	**40-970A-200-0.5m-MM**
1.0m Long	**40-970A-200-1m-MM**
2.0m Long	**40-970A-200-2m-MM**

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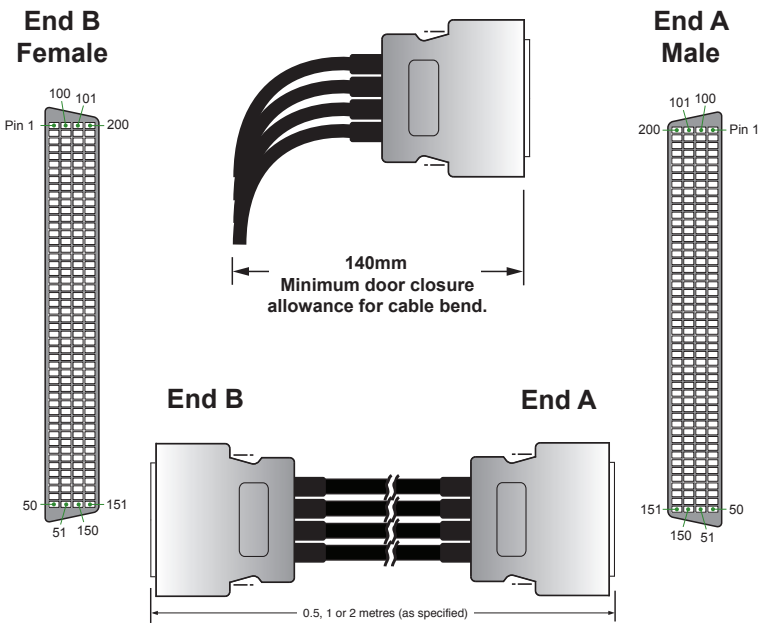
200-Pin LFH Extender Cable Assembly - Male to Female

- **High Specification Cable with Strain Relief**
- **4 Wire Bundles to Improve Flexibility**
- **Fully Screened Cable Construction**
- **End B is Suitable for Connection to Another Cable**



Note: 200-Pin female cable connectors with female screwlocks only connect to a Pickering 200-Pin male cable connector with male screwlocks and to a 200-Pin male connector block.



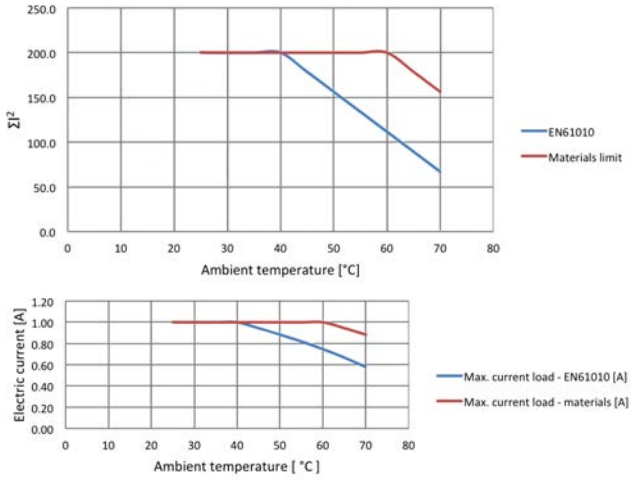


Technical Specification

Connector Type (End A):	200-Pin LFH
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	200-Pin LFH
Gender	Female
Securing Method	4-40 UNC screwlocks, female
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150VDC
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold over nickel
Contact Resistance	<20mOhm
Cable Exit	Rear
Overall Size (Approx) Male	H87 x W18 x D84mm
Female	H97 x W18 x D84.7mm
Cable Type:	4 off x 50-Pin twisted pair ribbon cable with twisted pairs of the odd and even wires (1 & 2, 3 & 4, etc) 1.27mm pitch
Conductor: Material	Tinned Copper
Strands	7/36 (28AWG)
Resistance	0.2Ω/m
Insulation	PVC
Outer Sleeve	PVC
Screened Construction	Yes
Additional Braided Sleeve	No
Cable O/D	10mm (Individual cables)
Minimum Bend Radius	25mm
Door Closure Allowance	140mm (see diagram)

Notes:
- The female end of this extender cable allows the fitting of a 200-Pin male cable connector with male screwlocks.
- Other cable lengths can be supplied in multiples of 0.5m.

Characteristic Plots for A200LMR-200LFR-5A100



The top graph shows the permitted ΣI² 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 bottom 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 ΣI² is complied with.

Product Order Codes

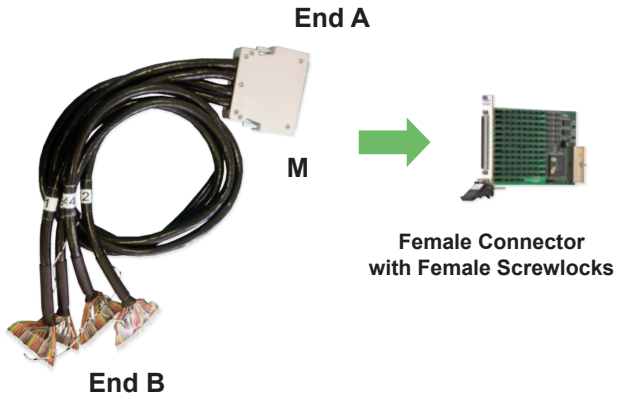
200-Pin LFH Extender Cable Assy, 1A, Male to Female,

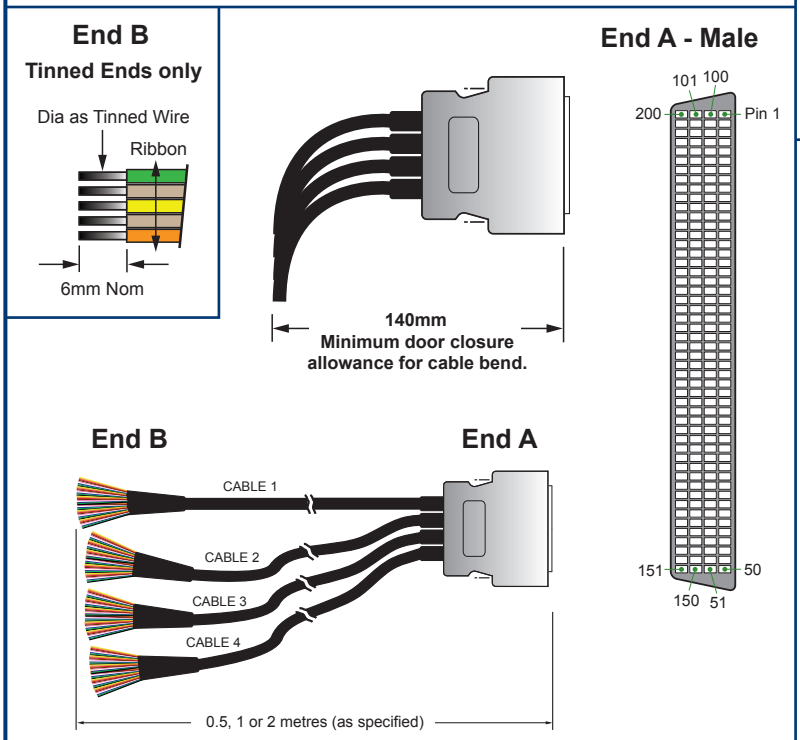
0.5m Long	**A200LMR-200LFR-5A050**
1.0m Long	**A200LMR-200LFR-5A100**
2.0m Long	**A200LMR-200LFR-5A200**

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200-Pin LFH Cable Assembly - Male to Unterminated

- High Specification Cable
- 4 Wire Bundles to Improve Flexibility
- Strain Relief in LFH Connector
- Fully Screened Cable Construction
- Fully Color Coded to Ensure Easy Connection





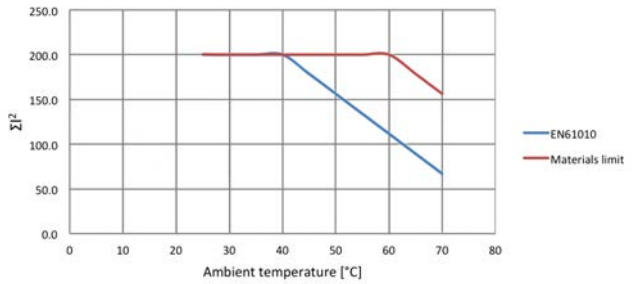
Wiring Schedule information can be found on the next page of this document.

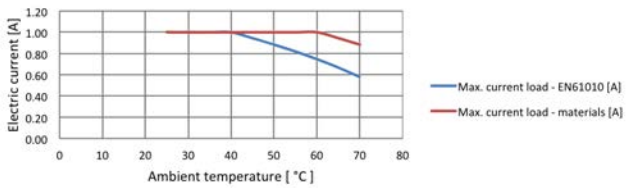
Technical Specification

Connector Type (End A):	200-Pin LFH
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Unterminated End (End B):	4 x 50-Pin Unterminated
Free Wire Length	Tinned contacts only
Individual Wire Labelling	Yes. Color coded.
Contacts	6mm min tinned copper
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150VDC
Insulation Resistance	1000MOhm
Connector:	
Contact Material	Gold over nickel
Contact Resistance	<20mOhm
Cable Exit	Rear
Overall Size (Approx)	H87 x W18 x D84mm
Cable Type:	4 off Identified x 50-Pin twisted pair ribbon cable with twisted pairs of the odd and even wires (1 & 2, 3 & 4, etc) 1.27mm pitch.
Conductor: Material	Tinned copper
Strands	7/36 (28AWG)
Resistance	0.2Ω/m
Insulation	PVC
Outer Sleeve	PVC
Screened Construction	Yes
Additional Braided Sleeve	No
Cable O/D	10mm (Individual cables)
Minimum Bend Radius	25mm
Door Closure Allowance	140mm (see diagram)

Notes:
Other cable lengths can be supplied in multiples of 0.5m.

Characteristic Plots for 40-972A-200-1m





The top graph shows the permitted ΣI² 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 bottom 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 ΣI² is complied with.

Product Order Codes

200-Pin LFH Cable Assy, 1A, Male to Unterminated,

Tinned Ends, 0.5m Long	**40-972A-200-0.5m-MU**
Tinned Ends, 1.0m Long	**40-972A-200-1m-MU**
Tinned Ends, 2.0m Long	**40-972A-200-2m-MU**

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Wiring Schedule for 200-Pin LFH Cable Assy
Male to Unterminated

End B

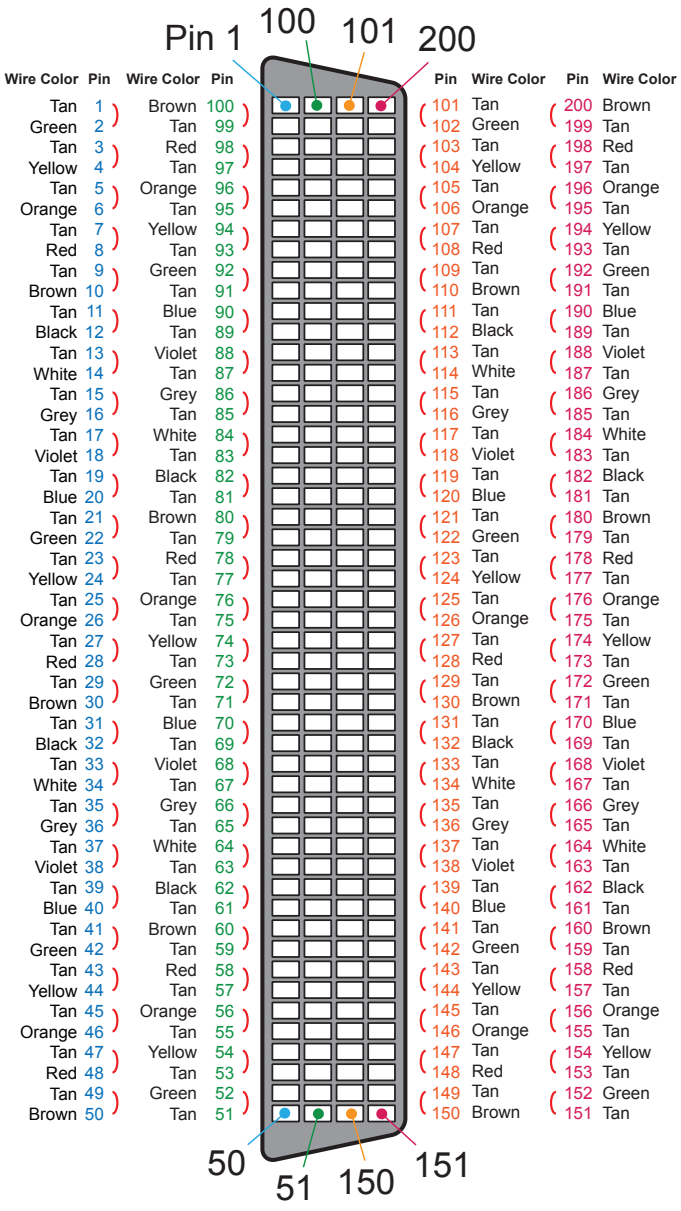
200-Pin LFH Connector Wiring (Cable 1)			
Pin	Wire Color	Pin	Wire Color
2	Green	1	Tan (Green Pair)
4	Yellow	3	Tan (Yellow Pair)
6	Orange	5	Tan (Orange Pair)
8	Red	7	Tan (Red Pair)
10	Brown	9	Tan (Brown Pair)
12	Black	11	Tan (Black Pair)
14	White	13	Tan (White Pair)
16	Grey	15	Tan (Grey Pair)
18	Violet	17	Tan (Violet Pair)
20	Blue	19	Tan (Blue Pair)
22	Green	21	Tan (Green Pair)
24	Yellow	23	Tan (Yellow Pair)
26	Orange	25	Tan (Orange Pair)
28	Red	27	Tan (Red Pair)
30	Brown	29	Tan (Brown Pair)
32	Black	31	Tan (Black Pair)
34	White	33	Tan (White Pair)
36	Grey	35	Tan (Grey Pair)
38	Violet	37	Tan (Violet Pair)
40	Blue	39	Tan (Blue Pair)
42	Green	41	Tan (Green Pair)
44	Yellow	43	Tan (Yellow Pair)
46	Orange	45	Tan (Orange Pair)
48	Red	47	Tan (Red Pair)
50	Brown	49	Tan (Brown Pair)

200-Pin LFH Connector Wiring (Cable 2)			
Pin	Wire Color	Pin	Wire Color
52	Green	51	Tan (Green Pair)
54	Yellow	53	Tan (Yellow Pair)
56	Orange	55	Tan (Orange Pair)
58	Red	57	Tan (Red Pair)
60	Brown	59	Tan (Brown Pair)
62	Black	61	Tan (Black Pair)
64	White	63	Tan (White Pair)
66	Grey	65	Tan (Grey Pair)
68	Violet	67	Tan (Violet Pair)
70	Blue	69	Tan (Blue Pair)
72	Green	71	Tan (Green Pair)
74	Yellow	73	Tan (Yellow Pair)
76	Orange	75	Tan (Orange Pair)
78	Red	77	Tan (Red Pair)
80	Brown	79	Tan (Brown Pair)
82	Black	81	Tan (Black Pair)
84	White	83	Tan (White Pair)
86	Grey	85	Tan (Grey Pair)
88	Violet	87	Tan (Violet Pair)
90	Blue	89	Tan (Blue Pair)
92	Green	91	Tan (Green Pair)
94	Yellow	93	Tan (Yellow Pair)
96	Orange	95	Tan (Orange Pair)
98	Red	97	Tan (Red Pair)
100	Brown	99	Tan (Brown Pair)

200-Pin LFH Connector Wiring (Cable 3)			
Pin	Wire Color	Pin	Wire Color
102	Green	101	Tan (Green Pair)
104	Yellow	103	Tan (Yellow Pair)
106	Orange	105	Tan (Orange Pair)
108	Red	107	Tan (Red Pair)
110	Brown	109	Tan (Brown Pair)
112	Black	111	Tan (Black Pair)
114	White	113	Tan (White Pair)
116	Grey	115	Tan (Grey Pair)
118	Violet	117	Tan (Violet Pair)
120	Blue	119	Tan (Blue Pair)
122	Green	121	Tan (Green Pair)
124	Yellow	123	Tan (Yellow Pair)
126	Orange	125	Tan (Orange Pair)
128	Red	127	Tan (Red Pair)
130	Brown	129	Tan (Brown Pair)
132	Black	131	Tan (Black Pair)
134	White	133	Tan (White Pair)
136	Grey	135	Tan (Grey Pair)
138	Violet	137	Tan (Violet Pair)
140	Blue	139	Tan (Blue Pair)
142	Green	141	Tan (Green Pair)
144	Yellow	143	Tan (Yellow Pair)
146	Orange	145	Tan (Orange Pair)
148	Red	147	Tan (Red Pair)
150	Brown	149	Tan (Brown Pair)

200-Pin LFH Connector Wiring (Cable 4)			
Pin	Wire Color	Pin	Wire Color
152	Green	151	Tan (Green Pair)
154	Yellow	153	Tan (Yellow Pair)
156	Orange	155	Tan (Orange Pair)
158	Red	157	Tan (Red Pair)
160	Brown	159	Tan (Brown Pair)
162	Black	161	Tan (Black Pair)
164	White	163	Tan (White Pair)
166	Grey	165	Tan (Grey Pair)
168	Violet	167	Tan (Violet Pair)
170	Blue	169	Tan (Blue Pair)
172	Green	171	Tan (Green Pair)
174	Yellow	173	Tan (Yellow Pair)
176	Orange	175	Tan (Orange Pair)
178	Red	177	Tan (Red Pair)
180	Brown	179	Tan (Brown Pair)
182	Black	181	Tan (Black Pair)
184	White	183	Tan (White Pair)
186	Grey	185	Tan (Grey Pair)
188	Violet	187	Tan (Violet Pair)
190	Blue	189	Tan (Blue Pair)
192	Green	191	Tan (Green Pair)
194	Yellow	193	Tan (Yellow Pair)
196	Orange	195	Tan (Orange Pair)
198	Red	197	Tan (Red Pair)
200	Brown	199	Tan (Brown Pair)

End A

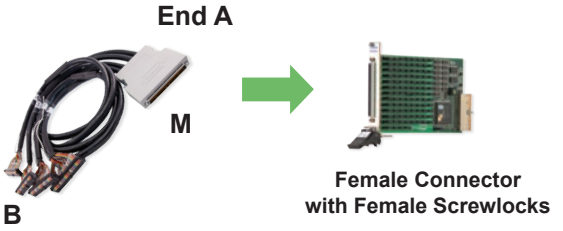


View on wiring side of Male connector

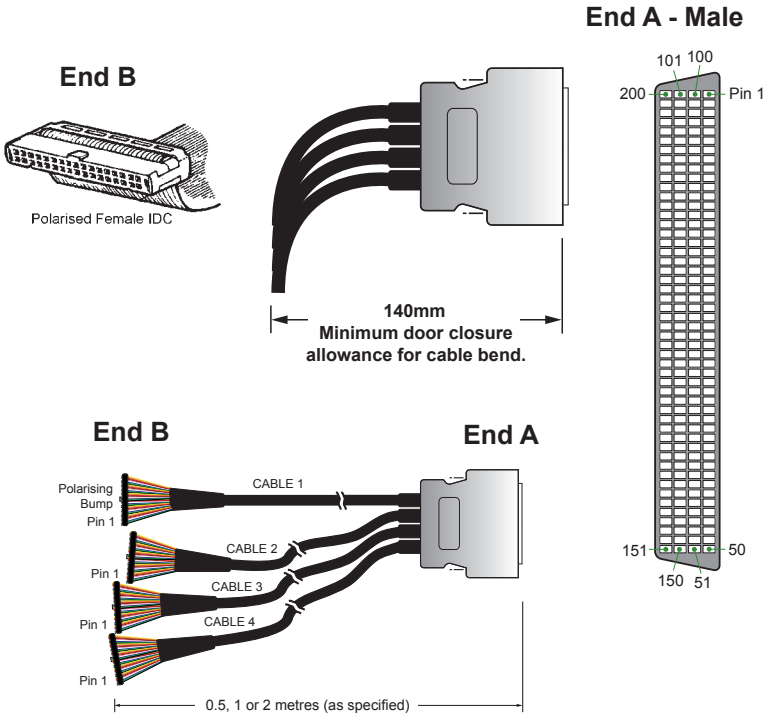
Denotes Twisted Pairing ie. Pins 1 and 2 use paired wires

200-Pin LFH Cable Assembly - Male to 50-Pin Ribbon (Female)

- High Specification Cable
- 4 Wire Bundles to Improve Flexibility
- Strain Relief
- Fully Screened Cable Construction
- Fully Color Coded to Ensure Easy Connection







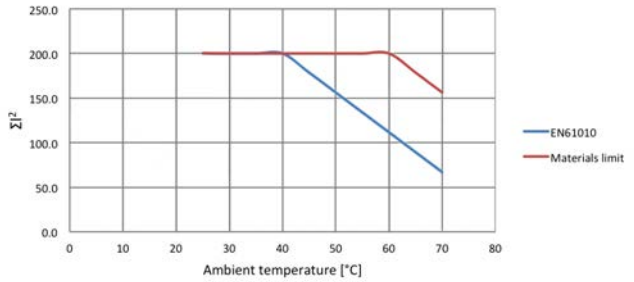
Wiring Schedule information can be found on the next page of this document.

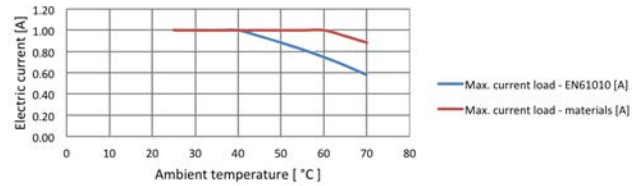
Technical Specification

Connector Type (End A):	200-Pin LFH
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	4 off x 50-Pin ribbon, 0.1" (2.54mm) pitch
Gender	Female,
Securing Method	Push fit
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150VDC
Insulation Resistance	1000MOhm
Connector (End A):	
Contact Material	Gold over nickel
Contact Resistance	<20mOhm
Cable Exit	Rear
Overall Size (Approx)	H87 x W18 x D84mm
Connectors (End B):	
Contact Material	Phosphor bronze/Au flash
Contact Resistance	<20mOhm
Cable Exit	Side
Overall Size (Approx)	H17 x W68 x D6mm
Cable Type:	4 off Identified x 50-Pin twisted pair ribbon cable with twisted pairs of the odd and even wires (1 & 2, 3 & 4, etc) 1.27mm pitch.
Conductor: Material	Tinned copper
Strands	7/36 (28AWG)
Resistance	0.2Ω/m
Insulation	PVC
Outer Sleeve	PVC
Screened Construction	Yes
Additional Braided Sleeve	No
Cable O/D	10mm (Individual cables)
Minimum Bend Radius	25mm
Door Closure Allowance	140mm (see diagram)

Notes:
Other cable lengths can be supplied in multiples of 0.5m.

Characteristic Plots for 40-971A-200-1m





The top graph shows the permitted ΣI² 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 bottom 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 ΣI² is complied with.

Product Order Codes

200-Pin LFH Cable Assy, 1A, Male to 50-Pin Ribbon, Female,

0.5m Long	**40-971A-200-0.5m-MF**
1.0m Long	**40-971A-200-1m-MF**
2.0m Long	**40-971A-200-2m-MF**

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Wiring Schedule for 200-Pin LFH to 50-Pin IDC
Male to Female

End B

CABLE 1

200-Pin Connector Color	200-Pin Connector Pin No.			200-Pin Connector Pin No.	200-Pin Connector Color
Green	2	2	1	1	Tan
Yellow	4	4	3	3	Tan
Orange	6	6	5	5	Tan
Red	8	8	7	7	Tan
Brown	10	10	9	9	Tan
Black	12	12	11	11	Tan
White	14	14	13	13	Tan
Grey	16	16	15	15	Tan
Violet	18	18	17	17	Tan
Blue	20	20	19	19	Tan
Green	22	22	21	21	Tan
Yellow	24	24	23	23	Tan
Orange	26	26	25	25	Tan
Red	28	28	27	27	Tan
Brown	30	30	29	29	Tan
Black	32	32	31	31	Tan
White	34	34	33	33	Tan
Grey	36	36	35	35	Tan
Violet	38	38	37	37	Tan
Blue	40	40	39	39	Tan
Green	42	42	41	41	Tan
Yellow	44	44	43	43	Tan
Orange	46	46	45	45	Tan
Red	48	48	47	47	Tan
Brown	50	50	49	49	Tan

CABLE 2

200-Pin Connector Color	200-Pin Connector Pin No.			200-Pin Connector Pin No.	200-Pin Connector Color
Green	52	2	1	51	Tan
Yellow	54	4	3	53	Tan
Orange	56	6	5	55	Tan
Red	58	8	7	57	Tan
Brown	60	10	9	59	Tan
Black	62	12	11	61	Tan
White	64	14	13	63	Tan
Grey	66	16	15	65	Tan
Violet	68	18	17	67	Tan
Blue	70	20	19	69	Tan
Green	72	22	21	71	Tan
Yellow	74	24	23	73	Tan
Orange	76	26	25	75	Tan
Red	78	28	27	77	Tan
Brown	80	30	29	79	Tan
Black	82	32	31	81	Tan
White	84	34	33	83	Tan
Grey	86	36	35	85	Tan
Violet	88	38	37	87	Tan
Blue	90	40	39	89	Tan
Green	92	42	41	91	Tan
Yellow	94	44	43	93	Tan
Orange	96	46	45	95	Tan
Red	98	48	47	97	Tan
Brown	100	50	49	99	Tan

CABLE 3

200-Pin Connector Color	200-Pin Connector Pin No.			200-Pin Connector Pin No.	200-Pin Connector Color
Green	102	2	1	101	Tan
Yellow	104	4	3	103	Tan
Orange	106	6	5	105	Tan
Red	108	8	7	107	Tan
Brown	110	10	9	109	Tan
Black	112	12	11	111	Tan
White	114	14	13	113	Tan
Grey	116	16	15	115	Tan
Violet	118	18	17	117	Tan
Blue	120	20	19	119	Tan
Green	122	22	21	121	Tan
Yellow	124	24	23	123	Tan
Orange	126	26	25	125	Tan
Red	128	28	27	127	Tan
Brown	130	30	29	129	Tan
Black	132	32	31	131	Tan
White	134	34	33	133	Tan
Grey	136	36	35	135	Tan
Violet	138	38	37	137	Tan
Blue	140	40	39	139	Tan
Green	142	42	41	141	Tan
Yellow	144	44	43	143	Tan
Orange	146	46	45	145	Tan
Red	148	48	47	147	Tan
Brown	150	50	49	149	Tan

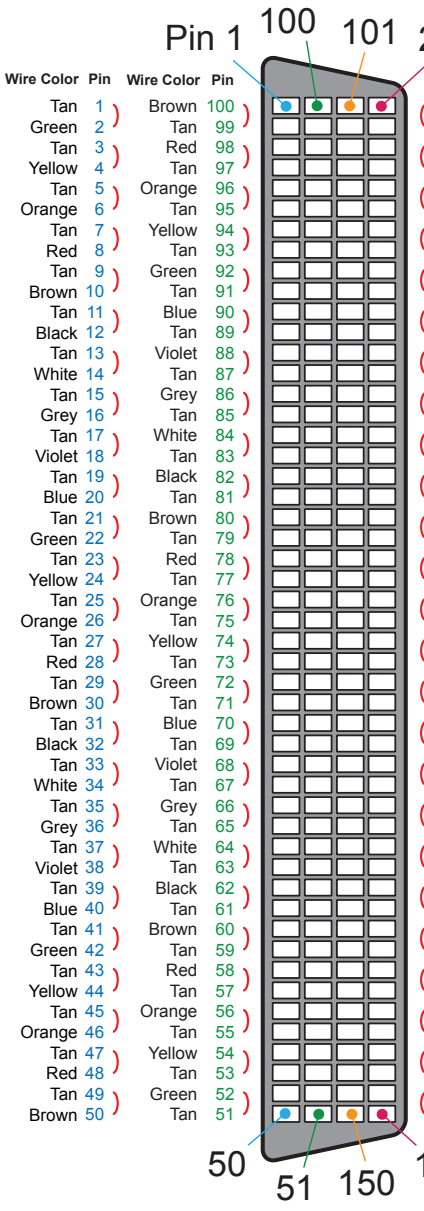
CABLE 4

200-Pin Connector Color	200-Pin Connector Pin No.			200-Pin Connector Pin No.	200-Pin Connector Color
Green	152	2	1	151	Tan
Yellow	154	4	3	153	Tan
Orange	156	6	5	155	Tan
Red	158	8	7	157	Tan
Brown	160	10	9	159	Tan
Black	162	12	11	161	Tan
White	164	14	13	163	Tan
Grey	166	16	15	165	Tan
Violet	168	18	17	167	Tan
Blue	170	20	19	169	Tan
Green	172	22	21	171	Tan
Yellow	174	24	23	173	Tan
Orange	176	26	25	175	Tan
Red	178	28	27	177	Tan
Brown	180	30	29	179	Tan
Black	182	32	31	181	Tan
White	184	34	33	183	Tan
Grey	186	36	35	185	Tan
Violet	188	38	37	187	Tan
Blue	190	40	39	189	Tan
Green	192	42	41	191	Tan
Yellow	194	44	43	193	Tan
Orange	196	46	45	195	Tan
Red	198	48	47	197	Tan
Brown	200	50	49	199	Tan

Female 50-Pin IDC Connectors

Note: The cables are formed of twisted pairs of the odd and even wires (1&2, 3&4, etc)

End A



Wire Color	Pin	Wire Color	Pin	Pin	Wire Color	Pin	Wire Color
Tan	1	Brown	100	101	Tan	200	Brown
Green	2	Tan	99	102	Green	199	Tan
Tan	3	Red	98	103	Tan	198	Red
Yellow	4	Tan	97	104	Yellow	197	Tan
Tan	5	Orange	96	105	Tan	196	Orange
Orange	6	Tan	95	106	Orange	195	Tan
Tan	7	Yellow	94	107	Tan	194	Yellow
Red	8	Tan	93	108	Red	193	Tan
Tan	9	Green	92	109	Tan	192	Green
Brown	10	Tan	91	110	Brown	191	Tan
Tan	11	Blue	90	111	Tan	190	Blue
Black	12	Tan	89	112	Black	189	Tan
Tan	13	Violet	88	113	Tan	188	Violet
White	14	Tan	87	114	White	187	Tan
Tan	15	Grey	86	115	Tan	186	Grey
Grey	16	Tan	85	116	Grey	185	Tan
Tan	17	White	84	117	Tan	184	White
Violet	18	Tan	83	118	Violet	183	Tan
Tan	19	Black	82	119	Tan	182	Black
Blue	20	Tan	81	120	Blue	181	Tan
Tan	21	Brown	80	121	Tan	180	Brown
Green	22	Tan	79	122	Green	179	Tan
Tan	23	Red	78	123	Tan	178	Red
Yellow	24	Tan	77	124	Yellow	177	Tan
Tan	25	Orange	76	125	Tan	176	Orange
Orange	26	Tan	75	126	Orange	175	Tan
Tan	27	Yellow	74	127	Tan	174	Yellow
Red	28	Tan	73	128	Red	173	Tan
Tan	29	Green	72	129	Tan	172	Green
Brown	30	Tan	71	130	Brown	171	Tan
Tan	31	Blue	70	131	Tan	170	Blue
Black	32	Tan	69	132	Black	169	Tan
Tan	33	Violet	68	133	Tan	168	Violet
White	34	Tan	67	134	White	167	Tan
Tan	35	Grey	66	135	Tan	166	Grey
Grey	36	Tan	65	136	Grey	165	Tan
Tan	37	White	64	137	Tan	164	White
Violet	38	Tan	63	138	Violet	163	Tan
Tan	39	Black	62	139	Tan	162	Black
Blue	40	Tan	61	140	Blue	161	Tan
Tan	41	Brown	60	141	Tan	160	Brown
Green	42	Tan	59	142	Green	159	Tan
Tan	43	Red	58	143	Tan	158	Red
Yellow	44	Tan	57	144	Yellow	157	Tan
Tan	45	Orange	56	145	Tan	156	Orange
Orange	46	Tan	55	146	Orange	155	Tan
Tan	47	Yellow	54	147	Tan	154	Yellow
Red	48	Tan	53	148	Red	153	Tan
Tan	49	Green	52	149	Tan	152	Green
Brown	50	Tan	51	150	Brown	151	Tan

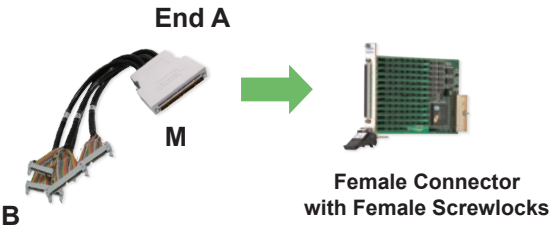
View on wiring side of Male connector

Denotes Twisted Pairing ie. Pins 1 and 2 use paired wires

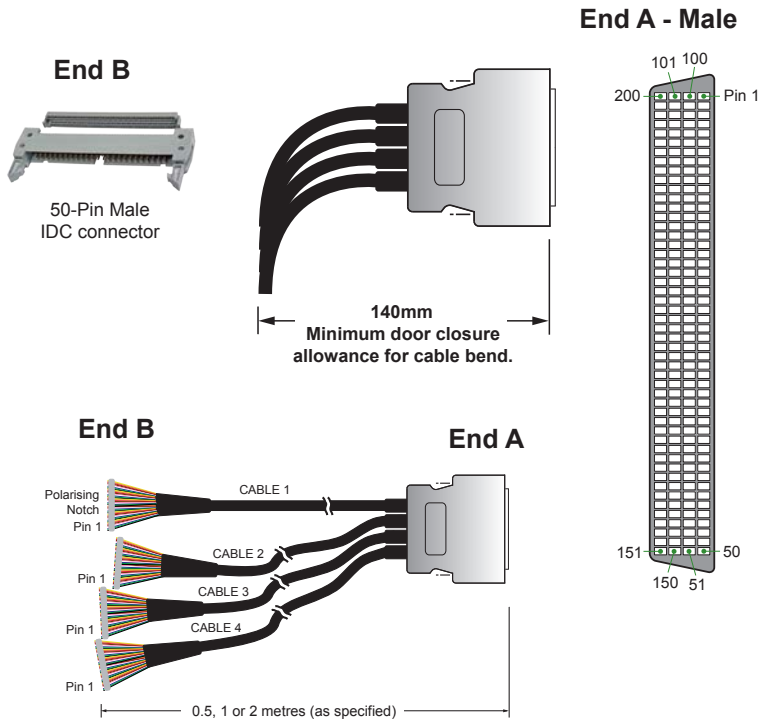
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200-Pin LFH Cable Assembly - Male to 50-Pin Ribbon (Male)

- High Specification Cable
- 4 Wire Bundles to Improve Flexibility
- Strain Relief
- Fully Screened Cable Construction
- Fully Color Coded to Ensure Easy Connection







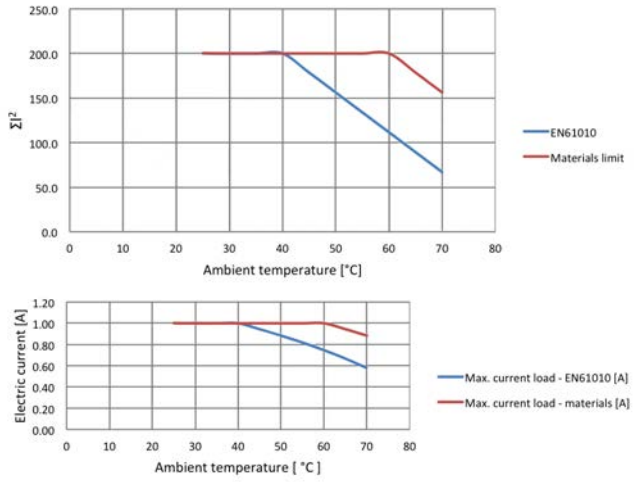
Wiring Schedule information can be found on the next page of this document.

Technical Specification

Connector Type (End A):	200-Pin LFH
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	4 off x 50-Pin ribbon, 0.1" (2.54mm) pitch
Gender	Male,
Securing Method	Latches
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150VDC
Insulation Resistance	1000MOhm
Connector (End A):	
Contact Material	Gold over nickel
Contact Resistance	<20mOhm
Cable Exit	Rear
Overall Size (Approx)	H87 x W18 x D84mm
Connectors (End B):	
Contact Material	Cu alloy/selective Au flash
Contact Resistance	<20mOhm
Cable Exit	Side
Overall Size (Approx)	H30.4 x W82.3 x D8mm
Cable Type:	4 off Identified x 50-Pin twisted pair ribbon cable with twisted pairs of the odd and even wires (1 & 2, 3 & 4, etc) 1.27mm pitch.
Conductor: Material	Tinned copper
Strands	7/36 (28AWG)
Resistance	0.2Ω/m
Insulation	PVC
Outer Sleeve	PVC
Screened Construction	Yes
Additional Braided Sleeve	No
Cable O/D	10mm (Individual cables)
Minimum Bend Radius	25mm
Door Closure Allowance	140mm (see diagram)

Notes:
Other cable lengths can be supplied in multiples of 0.5m.

Characteristic Plots for 40-971A-200-1m



The top graph shows the permitted ΣI² 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 bottom 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 ΣI² is complied with.

Product Order Codes

200-Pin LFH Cable Assy, 1A, Male to 50-Pin Ribbon, Male,

0.5m Long	**40-971A-200-0.5m-MM**
1.0m Long	**40-971A-200-1m-MM**
2.0m Long	**40-971A-200-2m-MM**

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Wiring Schedule for 200-Pin LFH to 50-Pin IDC
Male to Male

End B

CABLE 1

200-Pin Connector Color	Pin No.		200-Pin Connector Pin No.	Color
Tan	1	1	2	Green
Tan	3	3	4	Yellow
Tan	5	5	6	Orange
Tan	7	7	8	Red
Tan	9	9	10	Brown
Tan	11	11	12	Black
Tan	13	13	14	White
Tan	15	15	16	Grey
Tan	17	17	18	Violet
Tan	19	19	20	Blue
Tan	21	21	22	Green
Tan	23	23	24	Yellow
Tan	25	25	26	Orange
Tan	27	27	28	Red
Tan	29	29	30	Brown
Tan	31	31	32	Black
Tan	33	33	34	White
Tan	35	35	36	Grey
Tan	37	37	38	Violet
Tan	39	39	40	Blue
Tan	41	41	42	Green
Tan	43	43	44	Yellow
Tan	45	45	46	Orange
Tan	47	47	48	Red
Tan	49	49	50	Brown

CABLE 2

200-Pin Connector Color	Pin No.		200-Pin Connector Pin No.	Color
Tan	51	1	2	Green
Tan	53	3	4	Yellow
Tan	55	5	6	Orange
Tan	57	7	8	Red
Tan	59	9	10	Brown
Tan	61	11	12	Black
Tan	63	13	14	White
Tan	65	15	16	Grey
Tan	67	17	18	Violet
Tan	69	19	20	Blue
Tan	71	21	22	Green
Tan	73	23	24	Yellow
Tan	75	25	26	Orange
Tan	77	27	28	Red
Tan	79	29	30	Brown
Tan	81	31	32	Black
Tan	83	33	34	White
Tan	85	35	36	Grey
Tan	87	37	38	Violet
Tan	89	39	40	Blue
Tan	91	41	42	Green
Tan	93	43	44	Yellow
Tan	95	45	46	Orange
Tan	97	47	48	Red
Tan	99	49	50	Brown

CABLE 3

200-Pin Connector Color	Pin No.		200-Pin Connector Pin No.	Color
Tan	101	1	2	Green
Tan	103	3	4	Yellow
Tan	105	5	6	Orange
Tan	107	7	8	Red
Tan	109	9	10	Brown
Tan	111	11	12	Black
Tan	113	13	14	White
Tan	115	15	16	Grey
Tan	117	17	18	Violet
Tan	119	19	20	Blue
Tan	121	21	22	Green
Tan	123	23	24	Yellow
Tan	125	25	26	Orange
Tan	127	27	28	Red
Tan	129	29	30	Brown
Tan	131	31	32	Black
Tan	133	33	34	White
Tan	135	35	36	Grey
Tan	137	37	38	Violet
Tan	139	39	40	Blue
Tan	141	41	42	Green
Tan	143	43	44	Yellow
Tan	145	45	46	Orange
Tan	147	47	48	Red
Tan	149	49	50	Brown

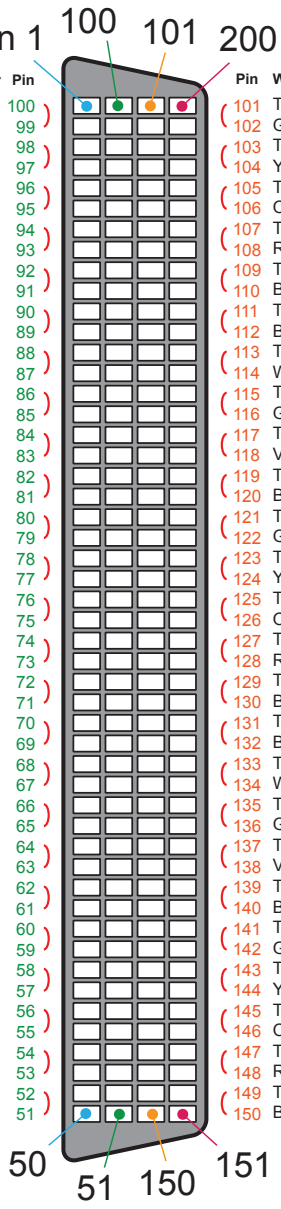
CABLE 4

200-Pin Connector Color	Pin No.		200-Pin Connector Pin No.	Color
Tan	151	1	2	Green
Tan	153	3	4	Yellow
Tan	155	5	6	Orange
Tan	157	7	8	Red
Tan	159	9	10	Brown
Tan	161	11	12	Black
Tan	163	13	14	White
Tan	165	15	16	Grey
Tan	167	17	18	Violet
Tan	169	19	20	Blue
Tan	171	21	22	Green
Tan	173	23	24	Yellow
Tan	175	25	26	Orange
Tan	177	27	28	Red
Tan	179	29	30	Brown
Tan	181	31	32	Black
Tan	183	33	34	White
Tan	185	35	36	Grey
Tan	187	37	38	Violet
Tan	189	39	40	Blue
Tan	191	41	42	Green
Tan	193	43	44	Yellow
Tan	195	45	46	Orange
Tan	197	47	48	Red
Tan	199	49	50	Brown

Male 50-Pin IDC Connectors

Note: The cables are formed of twisted pairs of the odd and even wires (1&2, 3&4, etc)

End A



Wire Color	Pin	Wire Color	Pin	Pin	Wire Color	Pin	Wire Color
Tan	1	Brown	100	101	Tan	200	Brown
Green	2	Tan	99	102	Green	199	Tan
Tan	3	Red	98	103	Tan	198	Red
Yellow	4	Tan	97	104	Yellow	197	Tan
Tan	5	Orange	96	105	Tan	196	Orange
Orange	6	Tan	95	106	Orange	195	Tan
Tan	7	Yellow	94	107	Tan	194	Yellow
Red	8	Tan	93	108	Red	193	Tan
Tan	9	Green	92	109	Tan	192	Green
Brown	10	Tan	91	110	Brown	191	Tan
Tan	11	Blue	90	111	Tan	190	Blue
Black	12	Tan	89	112	Black	189	Tan
Tan	13	Violet	88	113	Tan	188	Violet
White	14	Tan	87	114	White	187	Tan
Tan	15	Grey	86	115	Tan	186	Grey
Grey	16	Tan	85	116	Grey	185	Tan
Tan	17	White	84	117	Tan	184	White
Violet	18	Tan	83	118	Violet	183	Tan
Tan	19	Black	82	119	Tan	182	Black
Blue	20	Tan	81	120	Blue	181	Tan
Tan	21	Brown	80	121	Tan	180	Brown
Green	22	Tan	79	122	Green	179	Tan
Tan	23	Red	78	123	Tan	178	Red
Yellow	24	Tan	77	124	Yellow	177	Tan
Tan	25	Orange	76	125	Tan	176	Orange
Orange	26	Tan	75	126	Orange	175	Tan
Tan	27	Yellow	74	127	Tan	174	Yellow
Red	28	Tan	73	128	Red	173	Tan
Tan	29	Green	72	129	Tan	172	Green
Brown	30	Tan	71	130	Brown	171	Tan
Tan	31	Blue	70	131	Tan	170	Blue
Black	32	Tan	69	132	Black	169	Tan
Tan	33	Violet	68	133	Tan	168	Violet
White	34	Tan	67	134	White	167	Tan
Tan	35	Grey	66	135	Tan	166	Grey
Grey	36	Tan	65	136	Grey	165	Tan
Tan	37	White	64	137	Tan	164	White
Violet	38	Tan	63	138	Violet	163	Tan
Tan	39	Black	62	139	Tan	162	Black
Blue	40	Tan	61	140	Blue	161	Tan
Tan	41	Brown	60	141	Tan	160	Brown
Green	42	Tan	59	142	Green	159	Tan
Tan	43	Red	58	143	Tan	158	Red
Yellow	44	Tan	57	144	Yellow	157	Tan
Tan	45	Orange	56	145	Tan	156	Orange
Orange	46	Tan	55	146	Orange	155	Tan
Tan	47	Yellow	54	147	Tan	154	Yellow
Red	48	Tan	53	148	Red	153	Tan
Tan	49	Green	52	149	Tan	152	Green
Brown	50	Tan	51	150	Brown	151	Tan

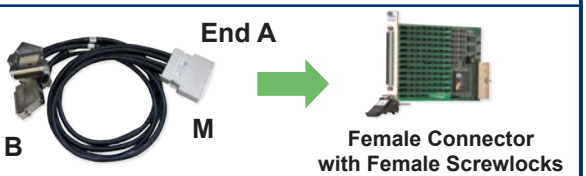
View on wiring side of Male connector

Denotes Twisted Pairing ie. Pins 1 and 2 use paired wires

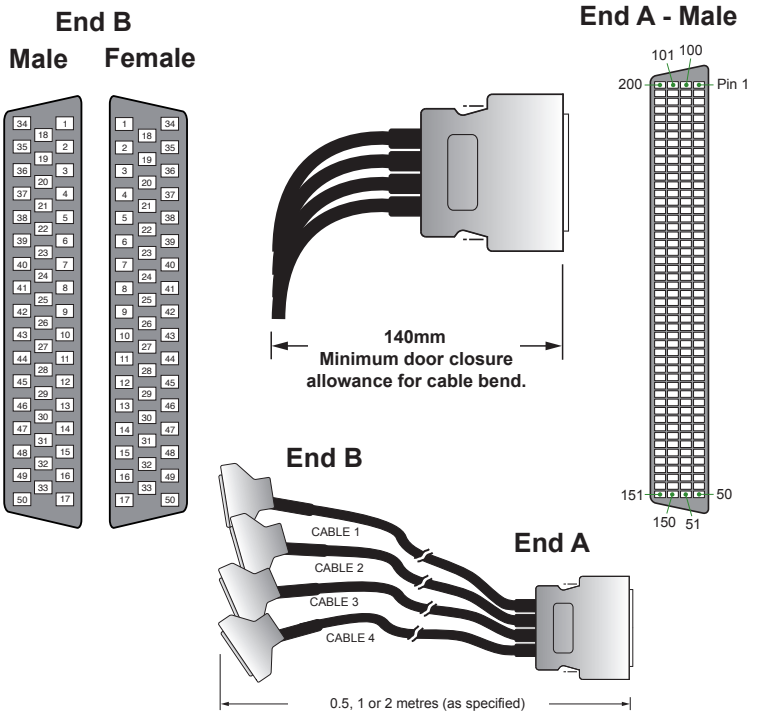
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200-Pin LFH Cable Assembly - Male to 50-Pin D-Type

- High Specification Cable
- 4 Wire Bundles to Improve Flexibility
- Strain Relief
- Fully Screened Cable Construction
- Can be used with Pickering 50-Pin D-Type Breakouts. See 90-005D







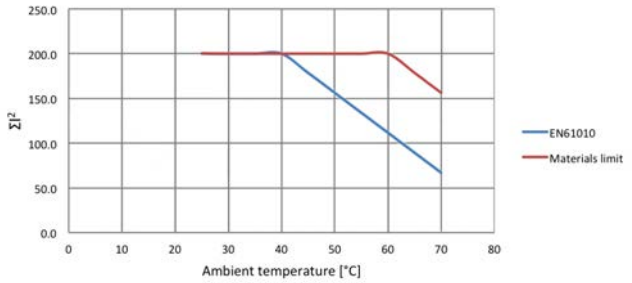
Wiring Schedule information can be found on the following pages.

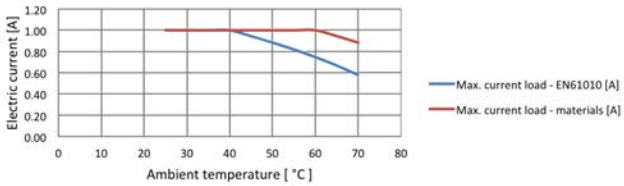
Technical Specification

Connector Type (End A):	200-Pin LFH
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	4 off x 50-Pin D-Sub,
Gender	Male or female
Securing Method:	
Male	4-40 UNC screwlocks, male
Female	4-40 UNC screwlocks, female
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150VDC
Insulation Resistance	1000MOhm
Connector (End A):	
Contact Material	Gold over nickel
Contact Resistance	<20mOhm
Cable Exit	Rear
Overall Size (Approx)	H87 x W18 x D84mm
Connectors (End B):	
Contact Material	Gold/Copper
Contact Resistance	<20mOhm
Cable Exit	45°
Overall Size (Approx)	H68 x W18.5 x D55mm
Cable Type:	4 off Identified x 50-Pin twisted pair ribbon cable with twisted pairs of the odd and even wires (1 & 2, 3 & 4, etc) 1.27mm pitch.
Conductor: Material	Tinned copper
Strands	7/36 (28AWG)
Resistance	0.2Ω/m
Insulation	PVC
Outer Sleeve	PVC
Screened Construction	Yes
Additional Braided Sleeve	No
Cable O/D	10mm (Individual cables)
Minimum Bend Radius	25mm
Door Closure Allowance	140mm (see diagram)

Notes:
Other cable lengths can be supplied in multiples of 0.5m.

Characteristic Plots for 40-971A-200D-1m





The top graph shows the permitted ΣI² 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 bottom 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 ΣI² is complied with.

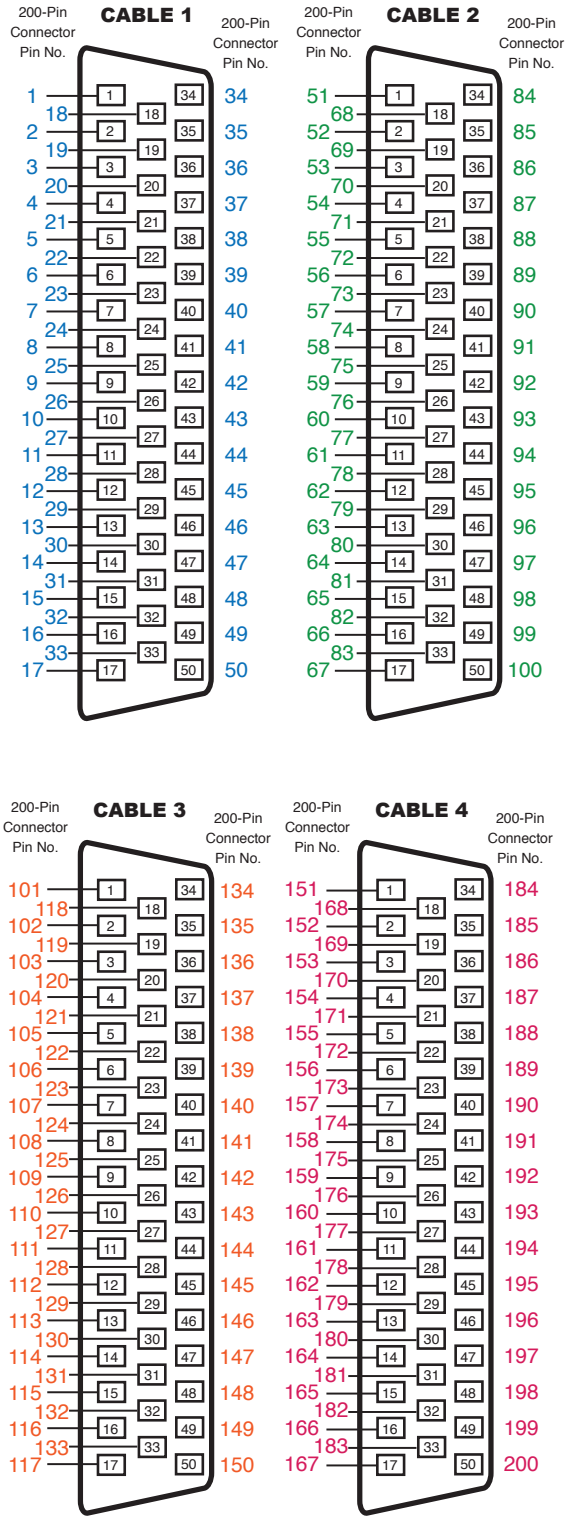
Product Order Codes

200-Pin LFH Cable Assy, 1A, Male to 50-Pin D-Type, Male	
0.5m Long	**40-971A-200D-0.5m-MM**
1.0m Long	**40-971A-200D-1m-MM**
2.0m Long	**40-971A-200D-2m-MM**
200-Pin LFH Cable Assy, 1A, Male to 50-Pin D-Type, Female	
0.5m Long	**40-971A-200D-0.5m-MF**
1.0m Long	**40-971A-200D-1m-MF**
2.0m Long	**40-971A-200D-2m-MF**

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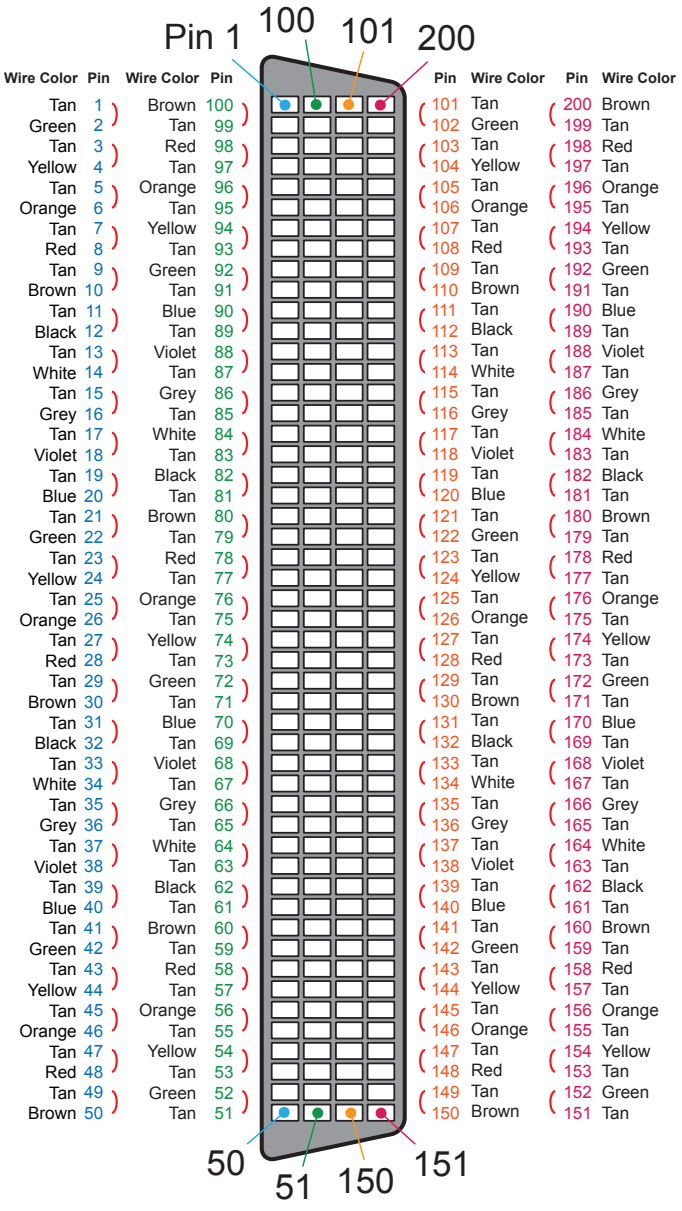
Wiring Schedule for 200-Pin LFH to 50-Pin D-Type Male to Male

End B



Male 50-Pin IDC Connectors

End A



Wire Color	Pin	Wire Color	Pin	Pin	Wire Color	Pin	Wire Color
Tan	1	Brown	100	101	Tan	200	Brown
Green	2	Tan	99	102	Green	199	Tan
Tan	3	Red	98	103	Tan	198	Red
Yellow	4	Tan	97	104	Yellow	197	Tan
Tan	5	Orange	96	105	Tan	196	Orange
Orange	6	Tan	95	106	Orange	195	Tan
Tan	7	Yellow	94	107	Tan	194	Yellow
Red	8	Tan	93	108	Red	193	Tan
Tan	9	Green	92	109	Tan	192	Green
Brown	10	Tan	91	110	Brown	191	Tan
Tan	11	Blue	90	111	Tan	190	Blue
Black	12	Tan	89	112	Black	189	Tan
Tan	13	Violet	88	113	Tan	188	Violet
White	14	Tan	87	114	White	187	Tan
Tan	15	Grey	86	115	Tan	186	Grey
Grey	16	Tan	85	116	Grey	185	Tan
Tan	17	White	84	117	Tan	184	White
Violet	18	Tan	83	118	Violet	183	Tan
Tan	19	Black	82	119	Tan	182	Black
Blue	20	Tan	81	120	Blue	181	Tan
Tan	21	Brown	80	121	Tan	180	Brown
Green	22	Tan	79	122	Green	179	Tan
Tan	23	Red	78	123	Tan	178	Red
Yellow	24	Tan	77	124	Yellow	177	Tan
Tan	25	Orange	76	125	Tan	176	Orange
Orange	26	Tan	75	126	Orange	175	Tan
Tan	27	Yellow	74	127	Tan	174	Yellow
Red	28	Tan	73	128	Red	173	Tan
Tan	29	Green	72	129	Tan	172	Green
Brown	30	Tan	71	130	Brown	171	Tan
Tan	31	Blue	70	131	Tan	170	Blue
Black	32	Tan	69	132	Black	169	Tan
Tan	33	Violet	68	133	Tan	168	Violet
White	34	Tan	67	134	White	167	Tan
Tan	35	Grey	66	135	Tan	166	Grey
Grey	36	Tan	65	136	Grey	165	Tan
Tan	37	White	64	137	Tan	164	White
Violet	38	Tan	63	138	Violet	163	Tan
Tan	39	Black	62	139	Tan	162	Black
Blue	40	Tan	61	140	Blue	161	Tan
Tan	41	Brown	60	141	Tan	160	Brown
Green	42	Tan	59	142	Green	159	Tan
Tan	43	Red	58	143	Tan	158	Red
Yellow	44	Tan	57	144	Yellow	157	Tan
Tan	45	Orange	56	145	Tan	156	Orange
Orange	46	Tan	55	146	Orange	155	Tan
Tan	47	Yellow	54	147	Tan	154	Yellow
Red	48	Tan	53	148	Red	153	Tan
Tan	49	Green	52	149	Tan	152	Green
Brown	50	Tan	51	150	Brown	151	Tan

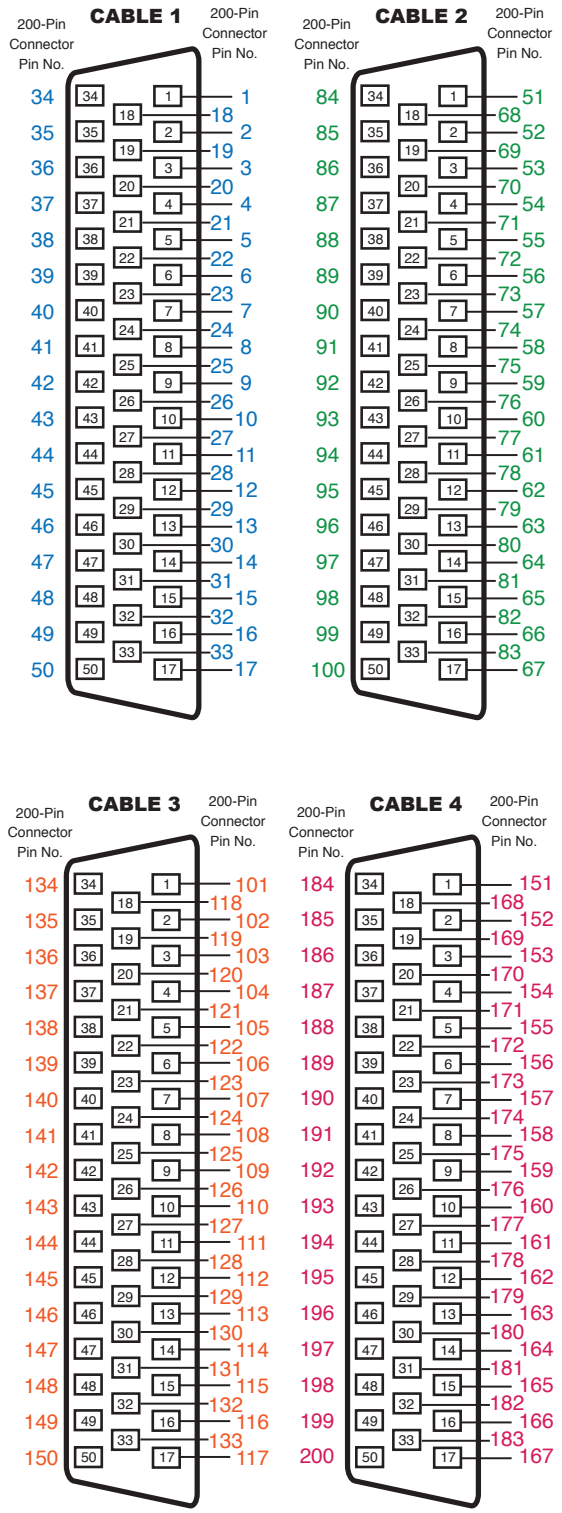
View on wiring side of Male connector

Denotes Twisted Pairing ie. Pins 1 and 2 use paired wires

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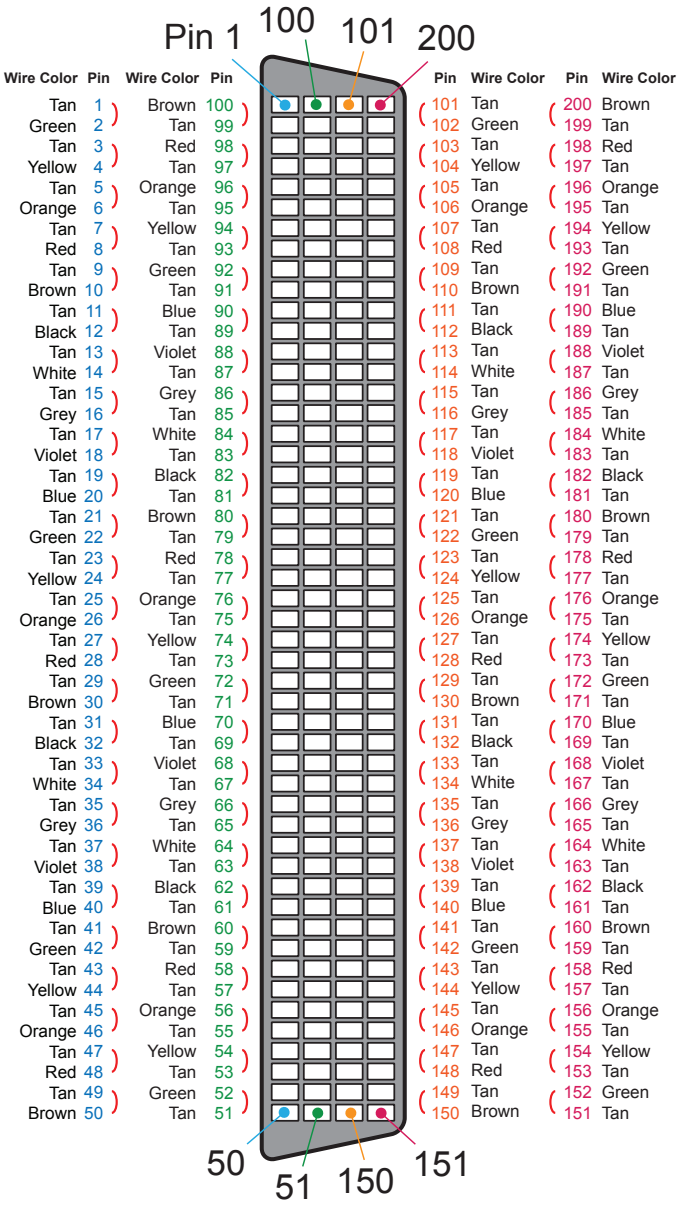
Wiring Schedule for 200-Pin LFH to 50-Pin D-Type Male to Female

End B



Female 50-Pin IDC Connectors

End A



Wire Color	Pin	Wire Color	Pin	Pin	Wire Color	Pin	Wire Color
Tan	1	Brown	100	101	Tan	200	Brown
Green	2	Tan	99	102	Green	199	Tan
Tan	3	Red	98	103	Tan	198	Red
Yellow	4	Tan	97	104	Yellow	197	Tan
Tan	5	Orange	96	105	Tan	196	Orange
Orange	6	Tan	95	106	Orange	195	Tan
Tan	7	Yellow	94	107	Tan	194	Yellow
Red	8	Tan	93	108	Red	193	Tan
Tan	9	Green	92	109	Tan	192	Green
Brown	10	Tan	91	110	Brown	191	Tan
Tan	11	Blue	90	111	Tan	190	Blue
Black	12	Tan	89	112	Black	189	Tan
Tan	13	Violet	88	113	Tan	188	Violet
White	14	Tan	87	114	White	187	Tan
Tan	15	Grey	86	115	Tan	186	Grey
Grey	16	Tan	85	116	Grey	185	Tan
Tan	17	White	84	117	Tan	184	White
Violet	18	Tan	83	118	Violet	183	Tan
Tan	19	Black	82	119	Tan	182	Black
Blue	20	Tan	81	120	Blue	181	Tan
Tan	21	Brown	80	121	Tan	180	Brown
Green	22	Tan	79	122	Green	179	Tan
Tan	23	Red	78	123	Tan	178	Red
Yellow	24	Tan	77	124	Yellow	177	Tan
Tan	25	Orange	76	125	Tan	176	Orange
Orange	26	Tan	75	126	Orange	175	Tan
Tan	27	Yellow	74	127	Tan	174	Yellow
Red	28	Tan	73	128	Red	173	Tan
Tan	29	Green	72	129	Tan	172	Green
Brown	30	Tan	71	130	Brown	171	Tan
Tan	31	Blue	70	131	Tan	170	Blue
Black	32	Tan	69	132	Black	169	Tan
Tan	33	Violet	68	133	Tan	168	Violet
White	34	Tan	67	134	White	167	Tan
Tan	35	Grey	66	135	Tan	166	Grey
Grey	36	Tan	65	136	Grey	165	Tan
Tan	37	White	64	137	Tan	164	White
Violet	38	Tan	63	138	Violet	163	Tan
Tan	39	Black	62	139	Tan	162	Black
Blue	40	Tan	61	140	Blue	161	Tan
Tan	41	Brown	60	141	Tan	160	Brown
Green	42	Tan	59	142	Green	159	Tan
Tan	43	Red	58	143	Tan	158	Red
Yellow	44	Tan	57	144	Yellow	157	Tan
Tan	45	Orange	56	145	Tan	156	Orange
Orange	46	Tan	55	146	Orange	155	Tan
Tan	47	Yellow	54	147	Tan	154	Yellow
Red	48	Tan	53	148	Red	153	Tan
Tan	49	Green	52	149	Tan	152	Green
Brown	50	Tan	51	150	Brown	151	Tan

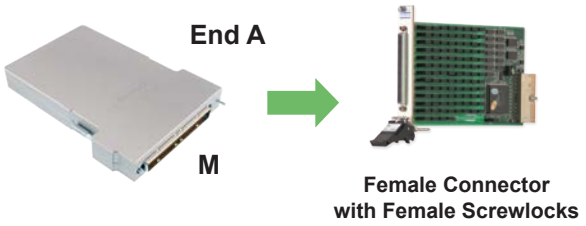
View on wiring side of Male connector

Denotes Twisted Pairing ie. Pins 1 and 2 use paired wires

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200-Pin LFH PXI Connector Block - Male

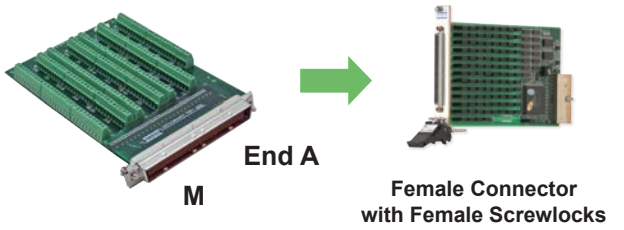
- **Connector and PCB Only or Connector, PCB and Backshell**
- **Male Screwlocks**
- **Cable Clamp in Backshell**
- **Easy to Use Rising Cage Screw Terminals**

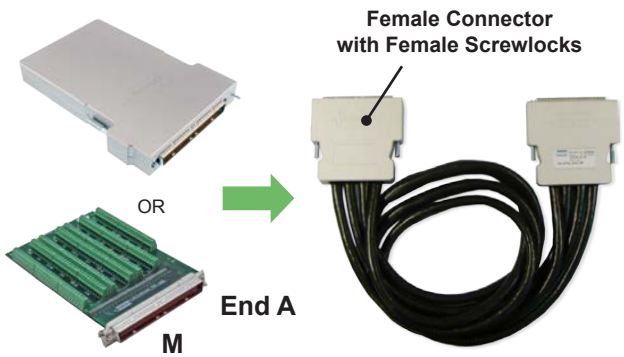


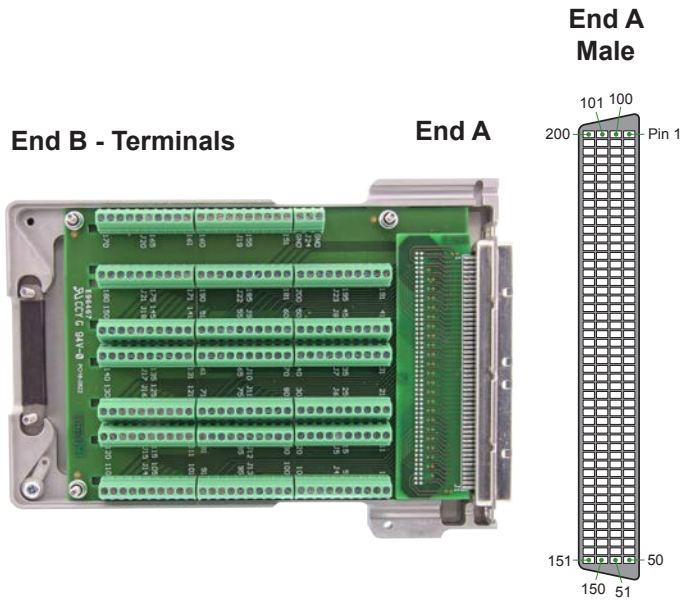
Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

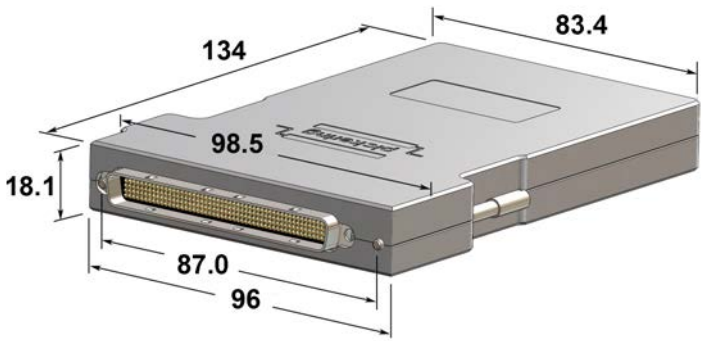
The screw terminals use a rising cage clamp mechanism to minimize risk of copper strand breakage. PTFE/PFA cables are recommended for use with this connector block to maximise copper cross-sectional area and insulation properties. The breakdown voltage of the connector block is controlled by clearances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

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 (End A):	200-Pin LFH
Gender	Male
Securing Method:	
Product with Backshell	4-40 UNC screwlocks, male
Product without Backshell	4-40 UNC screwlocks, male
Wire Connection (End B):	
Gender	Female
Connection Method	Rising cage screw terminals
Connector Block Ratings:	
Maximum Current	1A
Maximum Voltage	150VDC
Cable Exit	Rear - 32 x 11mm
Overall Size (Approx)	H98.5 x W18.1 x D138mm
200-Pin LFH:	
Contact Material	Gold over nickel
Contact Resistance	<20mOhms
Screw Terminals:	
Maximum Wire Size	20AWG
Recommended Insulation	PTFE/PFA
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

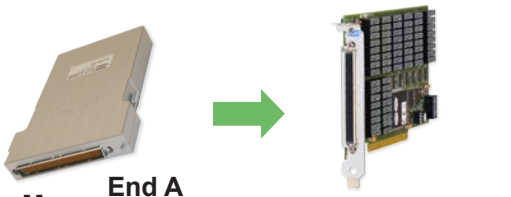
200-Pin LFH PXI Connector Block, 1A, Screw Terminal,

Male with Backshell,	**40-965-200-M**
Male without Backshell,	**92-965-200-M**

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200-Pin LFH PCI Connector Block - Male

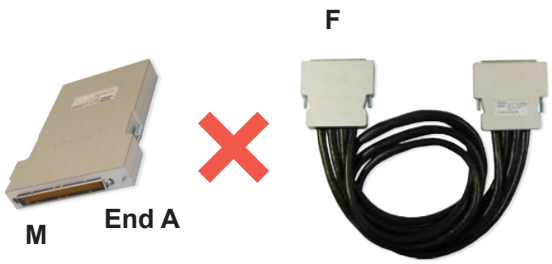
- **Mates to PCI Module Panel Connector**
- **Cable Clamp in Backshell**
- **Easy to Use Rising Cage Screw Terminals**



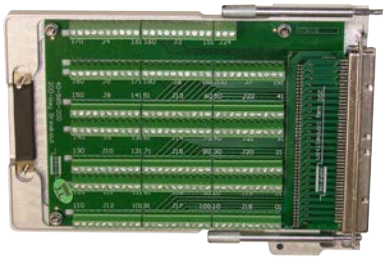
Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

Suitable for use on the front of PCI modules this connector block provides a simple method of connecting to high density 200-Pin LFH connectors. The screw terminals use a rising cage screw clamp mechanism to minimize risk of copper strand breakage. PTFE/PFA cables are recommended for use with this connector block to maximise copper cross sectional area and insulation properties.

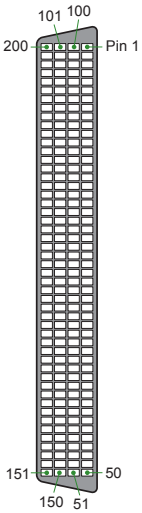
This connector block uses male screwlocks and will not mate to Pickering cables.



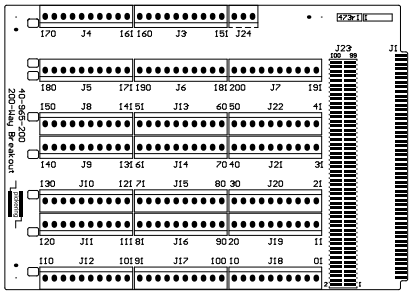


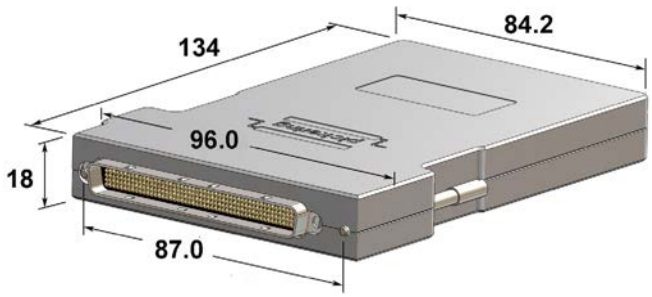


End A
Male



End B - Terminals End A





Technical Specification

Connector Type (End A):	200-Pin LFH
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Wire Connection (End B):	
Gender	Female
Connection Method	Rising cage screw terminals
Connector Block Ratings:	
Maximum Current	1A
Maximum Voltage	150VDC
Cable Exit	Rear - 32 x 11mm
Overall Size (Approx)	H96 x W18 x D138mm
200-Pin LFH:	
Contact Material	Gold over nickel
Contact Resistance	<20mOhms
Screw Terminals:	
Maximum Wire Size	20AWG
Recommended Insulation	PTFE/PFA
Additional Cable Clamp	Yes (in backshell)

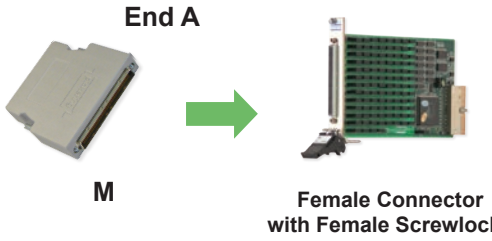
Product Order Codes

200-Pin LFH PCI Connector Block, 1A, Screw Terminal, Male with Backshell & Screwlocks **50-965-200-M**

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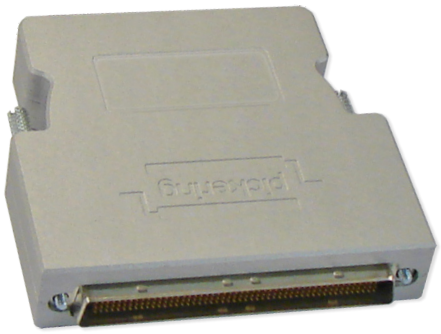
200-Pin LFH Connector - Male

- **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 200-Pin LFH connector. It is difficult to terminate a cable to the 200-Pin LFH because of the high density and fine pitch. Pickering Interfaces recommend the use of purchased cable assemblies for applications where most or all of the contacts are in use.

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.





50-Pin Connector Strip
(4 x 50-Pin Strips are included with the connector kit)

Technical Specification

Connector Type (End A):	200-Pin LFH
Gender	Male
Securing Method:	
Product with Backshell	4-40 UNC screwlocks, male
Product without Backshell	4-40UNC Screwlocks, male
Wire Connection (End B):	
Gender	Male
Connection Method	Solder pin
Connector Ratings:	
Maximum Current	1A
Maximum Voltage	150VDC
Cable Exit:	Dual rear exit
Cable Exit Size	Each exit: 4.8 x 24mm
Overall Size (Approx)	H87 x W18 x D84mm
200-Pin LFH:	
Contact Material	Gold over nickel
Contact Resistance	<20mOhm
Wire Connection:	
Maximum Wire Size	28AWG
Recommended Wire	50-Pin twisted pair ribbon cable, 1.27mm pitch,
Additional Cable Clamp	Yes (in backshell)
Notes:	
This connector is supplied in kit form.	

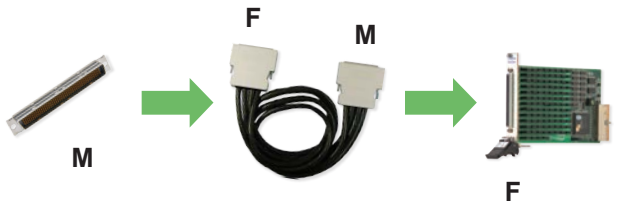
Product Order Codes

200-Pin LFH Connector, 1A, Solder Pin,	
Male with Backshell	**40-961A-200-M**
Male without Backshell	**92-961-200-M**

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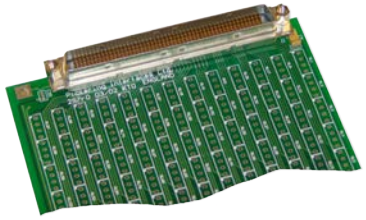
200-Pin LFH Connector - Male

- **Straight PCB Mount**
- **Ideal for User Created Termination Solutions**
- **Supplied in Kit Form with Assembly Instructions**

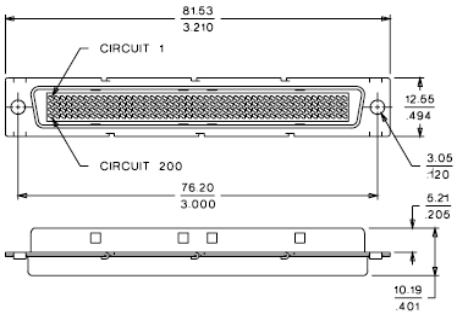


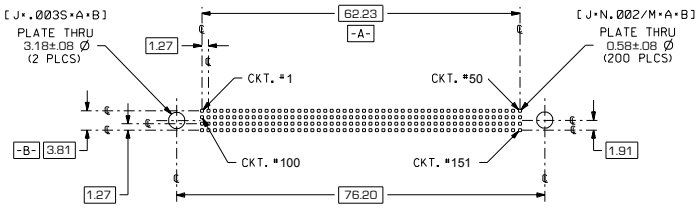
This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this data sheet. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

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

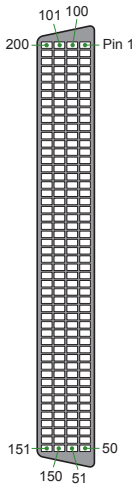




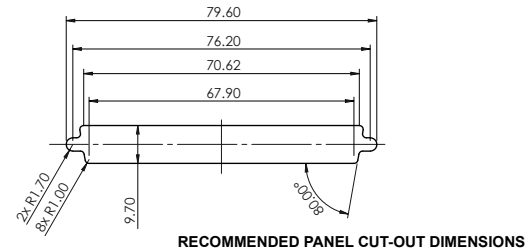




P.C. BOARD MOUNTING DIMENSIONS CONNECTOR SIDE
RECOMMENDED P.C.BOARD THICKNESS 1.6mm



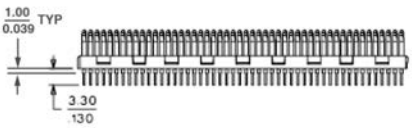
End A
Male



DIMENSIONS IN mm

RECOMMENDED PANEL CUT-OUT DIMENSIONS
(for connector mounted behind panel)

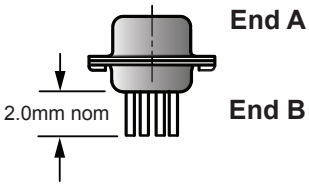
CONNECTOR PIN DETAIL



Technical Specification

Connector Type (End A):	200-Pin LFH
Gender	Male
Securing Method	4-40 UNC screwlocks, female
PCB Connection (End B):	
Gender	Male
Connection Method	Solder
Mounting	Straight PCB mount
Connector Ratings:	
Maximum Current	1A each pin
Maximum Voltage	150VDC
200-Pin LFH:	
Contact Material	Gold over nickel
Contact Resistance	<20mOhm
PCB Legs:	
Effective Leg Length	2.0mm nom. Cut from 15mm (See diagram)

Leg Length



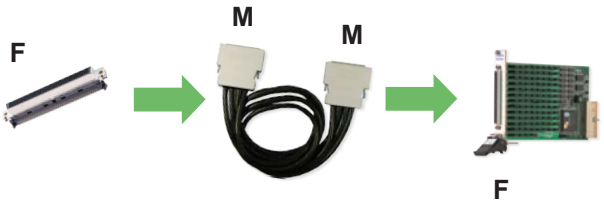
Product Order Codes

200-Pin LFH Connector, 1A, Straight PCB Mount, Male **40-963-200-SM**

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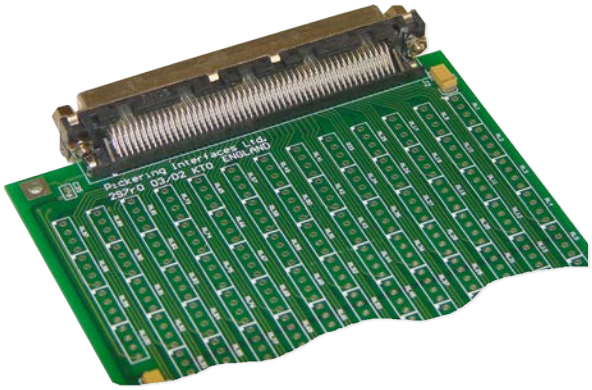
200-Pin LFH Connector - Female

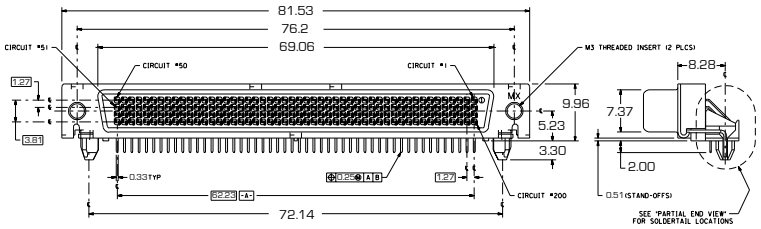
- **Right Angle PCB Mount**
- **Ideal for User Created Termination Solutions**



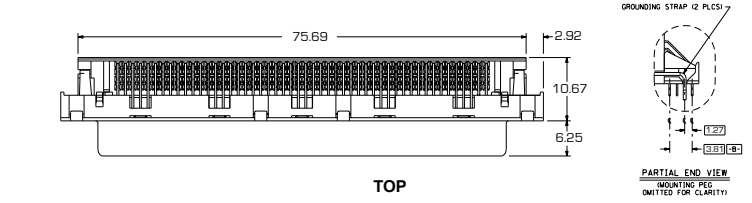
This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this data sheet. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

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

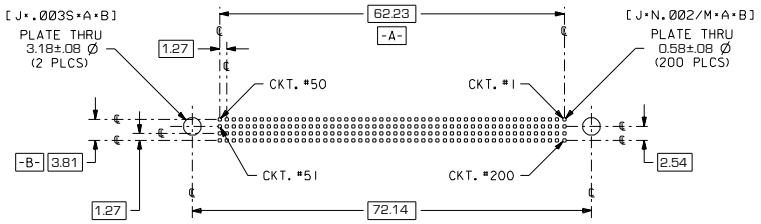




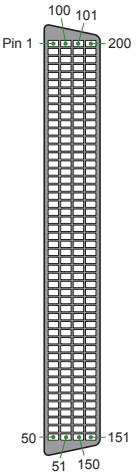
FRONT AND SIDE



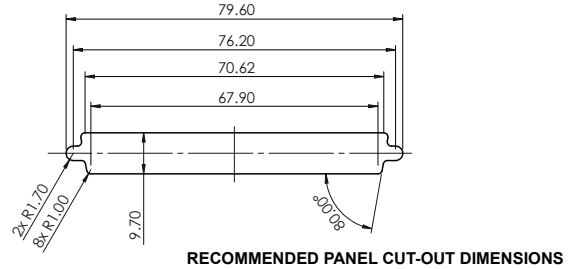
TOP



P.C. BOARD MOUNTING DIMENSIONS CONNECTOR SIDE
RECOMMENDED P.C.BOARD THICKNESS 1.6mm



End A
Female



DIMENSIONS IN mm

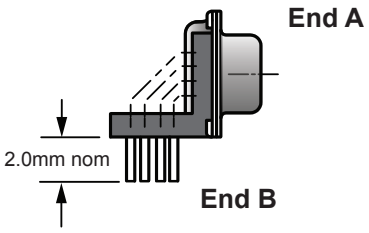
RECOMMENDED PANEL CUT-OUT DIMENSIONS
(for connector mounted behind panel)

Technical Specification

Connector Type (End A):	200-Pin LFH
Gender	Female
Securing Method	4-40 UNC screwlocks, female
PCB Connection (End B):	
Gender	Male
Connection Method	Solder
Mounting	Right angle PCB mount
Connector Ratings:	
Maximum Current	1A each pin
Maximum Voltage	150VDC
200-Pin LFH:	
Contact Material	Gold over nickel
Contact Resistance	<20mOhm
PCB Legs:	
Effective Leg Length	2.0mm nom (See diagram)

Notes:
The integral screw threads on the 200-Pin LFH connector are M3 rather than 4-40 UNC. The protruding 4-40 UNC screwlocks are fitted into the M3 threaded holes.

Leg Length



Product Order Codes

200-Pin LFH Connector, 1A, Right Angle PCB Mount, Female **40-963-200-RF**

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Additional
Connection Accessories

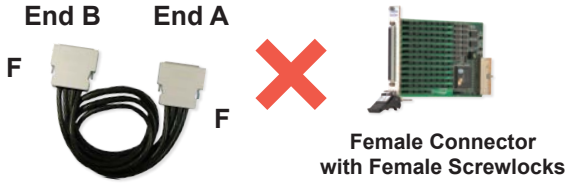
Although these items do not directly mate with Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

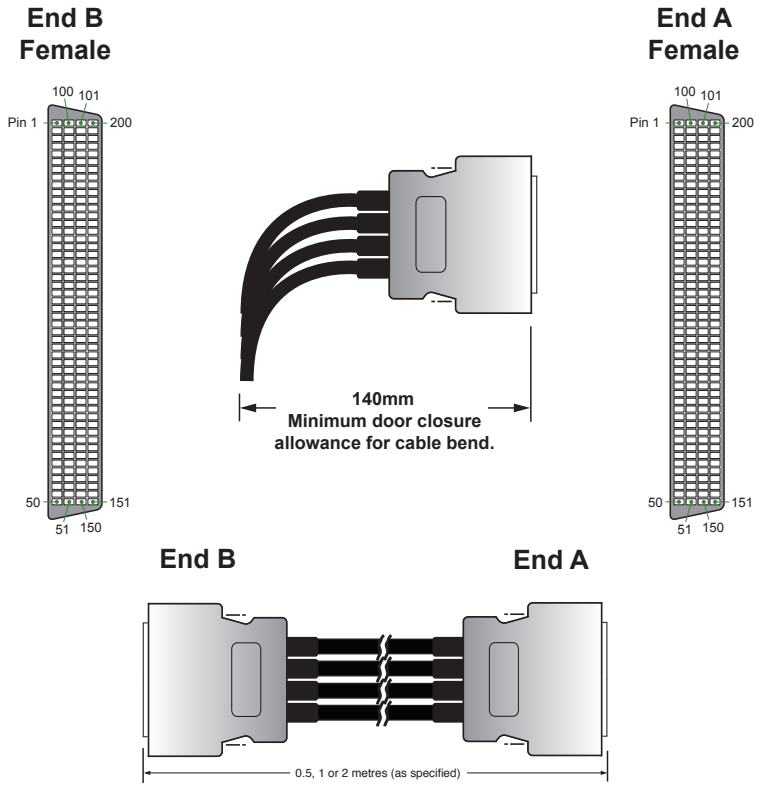
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200-Pin LFH Cable Assembly - Female to Female

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

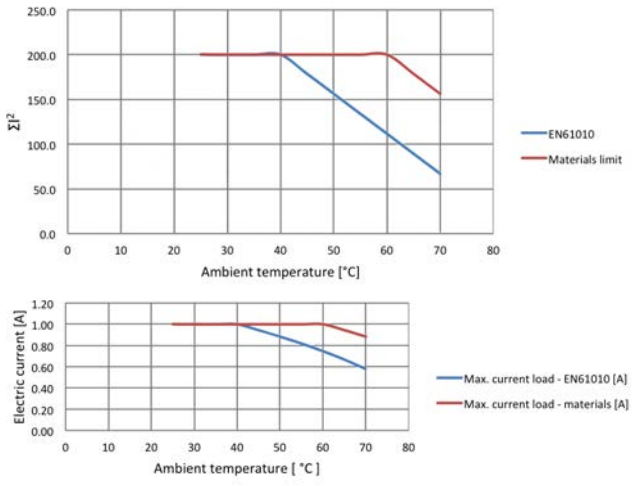
- High Specification Cable
- 4 Wire Bundles to Improve Flexibility
- Screened Cable Construction with Strain Relief
- Connectors include Male Screwlocks







Characteristic Plots for A200LFR-200LFR-6A100



The top 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 bottom 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.

Technical Specification

Connector Type (End A):	200-Pin LFH
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	200-Pin LFH
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150VDC
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold over nickel
Contact Resistance	<20mOhm
Cable Exit	Rear
Overall Size (Approx) Female	H92 x W18 x D84mm
Cable Type:	4 off x 50-Pin twisted pair ribbon cable with twisted pairs of the odd and even wires (1 & 2, 3 & 4, etc) 1.27mm pitch
Conductor: Material	Tinned Copper
Strands	7/36 (28AWG)
Resistance	0.2Ω/m
Insulation	PVC
Outer Sleeve	PVC
Screened Construction	Yes
Additional Braided Sleeve	No
Cable O/D	10mm (Individual cables)
Minimum Bend Radius	25mm
Door Closure Allowance	140mm (see diagram)

Notes:
Other cable lengths can be supplied in multiples of 0.5m.

Product Order Codes

200-Pin LFH Cable Assy, 1A, Female to Female,

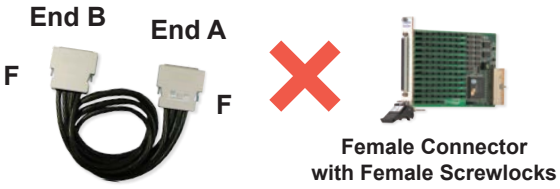
0.5m Long	**A200LFR-200LFR-6A050**
1.0m Long	**A200LFR-200LFR-6A100**
2.0m Long	**A200LFR-200LFR-6A200**

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200-Pin LFH Cable Assembly - Female to Female

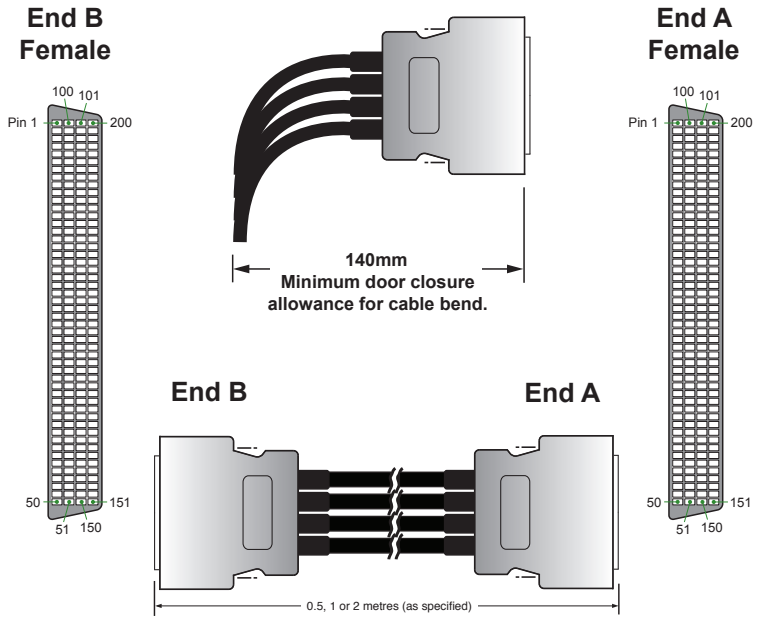
This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product

- **High Specification Cable**
- **4 Wire Bundles to Improve Flexibility**
- **Strain Relief**
- **Fully Screened Cable Construction**



Note: 200-Pin female cable connectors with female screwlocks only connect to a Pickering 200-Pin male cable connector with male screwlocks and to a 200-Pin male connector block.



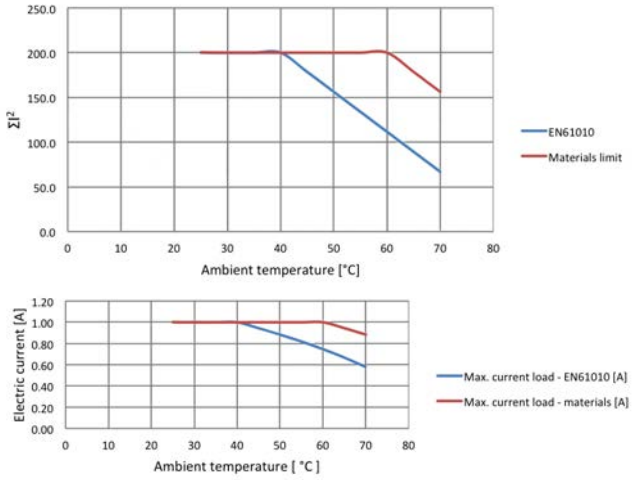


Technical Specification

Connector Type (End A):	200-Pin LFH
Gender	Female
Securing Method	4-40 UNC screwlocks, female
Connector Type (End B):	200-Pin LFH
Gender	Female
Securing Method	4-40 UNC screwlocks, female
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150VDC
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold over nickel
Contact Resistance	<20mOhm
Cable Exit	Rear
Overall Size (Approx) Female	H97 x W18 x D84.7mm
Cable Type:	4 off x 50-Pin twisted pair ribbon cable with twisted pairs of the odd and even wires (1 & 2, 3 & 4, etc) 1.27mm pitch
Conductor: Material	Tinned Copper
Strands	7/36 (28AWG)
Resistance	0.2Ω/m
Insulation	PVC
Outer Sleeve	PVC
Screened Construction	Yes
Additional Braided Sleeve	No
Cable O/D	10mm (Individual cables)
Minimum Bend Radius	25mm
Door Closure Allowance	140mm (see diagram)

Notes:
Other cable lengths can be supplied in multiples of 0.5m.

Characteristic Plots for 40-970A-200-1m



The top graph shows the permitted ΣI² 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 bottom 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 ΣI² is complied with.

Product Order Codes

200-Pin LFH Cable Assy, 1A, Female to Female,

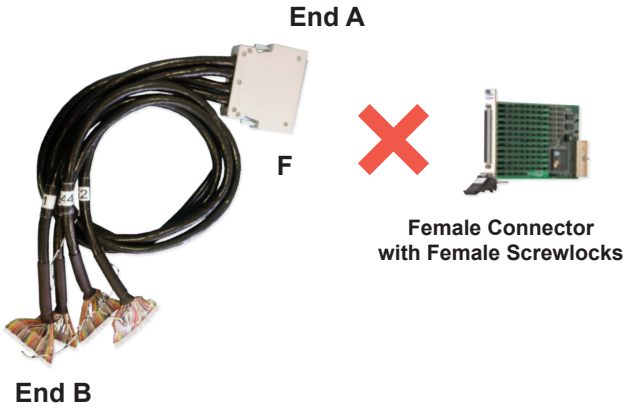
0.5m Long	**40-970A-200-0.5m-FF**
1.0m Long	**40-970A-200-1m-FF**
2.0m Long	**40-970A-200-2m-FF**

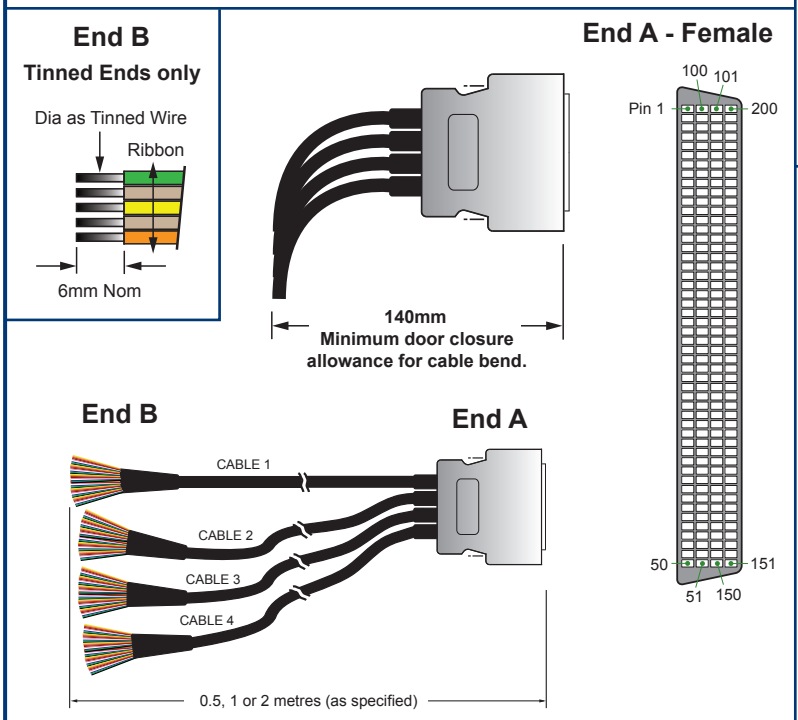
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200-Pin LFH Cable Assembly - Female to Unterminated

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

- High Specification Cable
- 4 Wire Bundles to Improve Flexibility
- Strain Relief in LFH Connector
- Fully Screened Cable Construction
- Fully Color Coded to Ensure Easy Connection





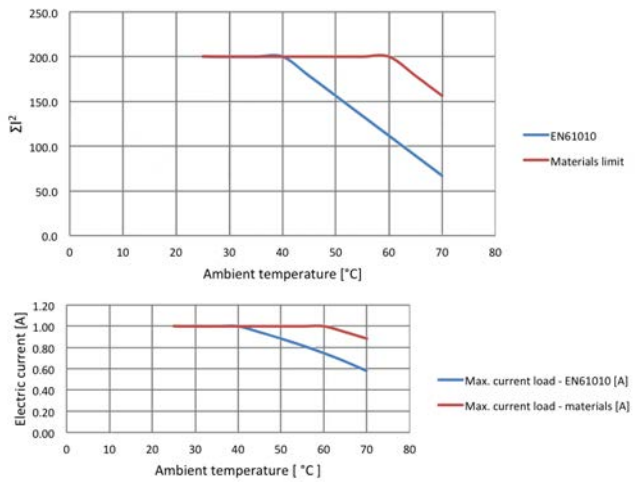
Wiring Schedule information can be found on the next page of this document.

Technical Specification

Connector Type (End A):	200-Pin LFH
Gender	Female
Securing Method	4-40 UNC screwlocks, female
Unterminated End (End B):	4 x 50-Pin Unterminated
Free Wire Length	Tinned contacts only
Individual Wire Labelling	Yes. Color coded.
Contacts	6mm min tinned copper
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150VDC
Insulation Resistance	1000MOhm
Connector:	
Contact Material	Gold over nickel
Contact Resistance	<20mOhm
Cable Exit	Rear
Overall Size (Approx)	H97 x W18 x D84.7mm
Cable Type:	4 off Identified x 50-Pin twisted pair ribbon cable with twisted pairs of the odd and even wires (1 & 2, 3 & 4, etc) 1.27mm pitch.
Conductor: Material	Tinned copper
Strands	7/36 (28AWG)
Resistance	0.2Ω/m
Insulation	PVC
Outer Sleeve	PVC
Screened Construction	Yes
Additional Braided Sleeve	No
Cable O/D	10mm (Individual cables)
Minimum Bend Radius	25mm
Door Closure Allowance	140mm (see diagram)

Notes:
Other cable lengths can be supplied in multiples of 0.5m.

Characteristic Plots for 40-972A-200-1m



The top 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 bottom 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

200-Pin LFH Cable Assy, 1A, Female to Unterminated,

Tinned Ends, 0.5m Long	**40-972A-200-0.5m-FU**
Tinned Ends, 1.0m Long	**40-972A-200-1m-FU**
Tinned Ends, 2.0m Long	**40-972A-200-2m-FU**

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Wiring Schedule for 200-Pin LFH Cable Assy
Female to Unterminated

End B

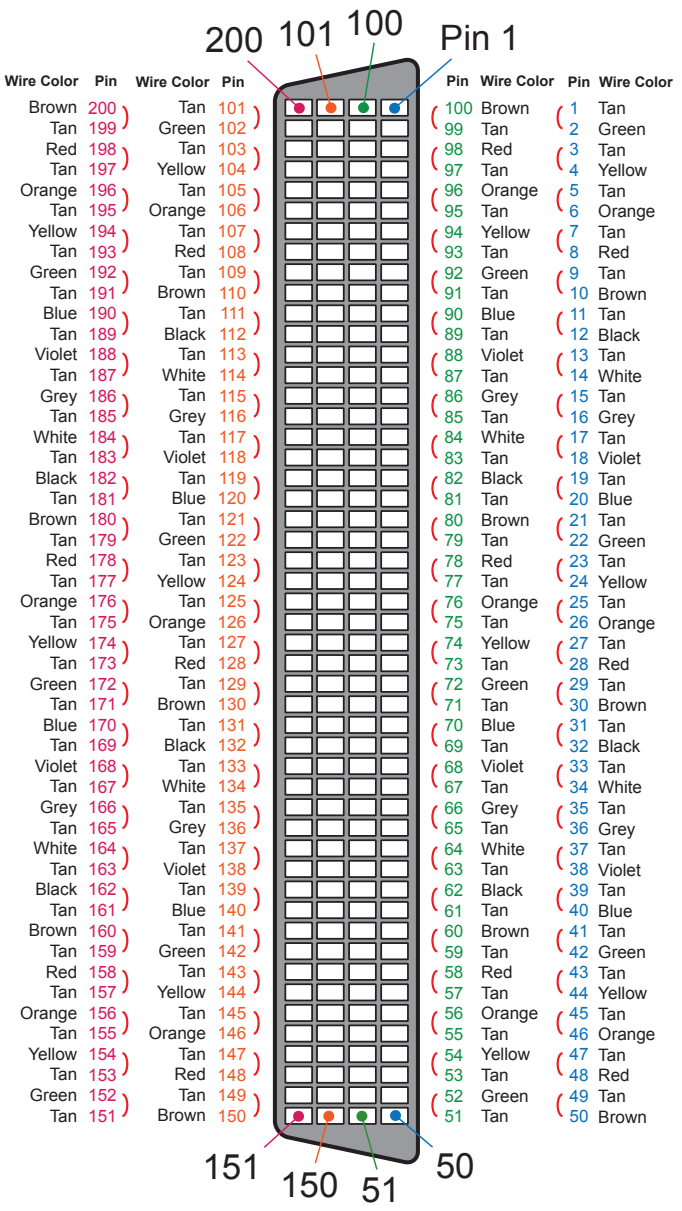
200-Pin LFH Connector Wiring (Cable 1)			
Pin	Wire Color	Pin	Wire Color
2	Green	1	Tan (Green Pair)
4	Yellow	3	Tan (Yellow Pair)
6	Orange	5	Tan (Orange Pair)
8	Red	7	Tan (Red Pair)
10	Brown	9	Tan (Brown Pair)
12	Black	11	Tan (Black Pair)
14	White	13	Tan (White Pair)
16	Grey	15	Tan (Grey Pair)
18	Violet	17	Tan (Violet Pair)
20	Blue	19	Tan (Blue Pair)
22	Green	21	Tan (Green Pair)
24	Yellow	23	Tan (Yellow Pair)
26	Orange	25	Tan (Orange Pair)
28	Red	27	Tan (Red Pair)
30	Brown	29	Tan (Brown Pair)
32	Black	31	Tan (Black Pair)
34	White	33	Tan (White Pair)
36	Grey	35	Tan (Grey Pair)
38	Violet	37	Tan (Violet Pair)
40	Blue	39	Tan (Blue Pair)
42	Green	41	Tan (Green Pair)
44	Yellow	43	Tan (Yellow Pair)
46	Orange	45	Tan (Orange Pair)
48	Red	47	Tan (Red Pair)
50	Brown	49	Tan (Brown Pair)

200-Pin LFH Connector Wiring (Cable 2)			
Pin	Wire Color	Pin	Wire Color
52	Green	51	Tan (Green Pair)
54	Yellow	53	Tan (Yellow Pair)
56	Orange	55	Tan (Orange Pair)
58	Red	57	Tan (Red Pair)
60	Brown	59	Tan (Brown Pair)
62	Black	61	Tan (Black Pair)
64	White	63	Tan (White Pair)
66	Grey	65	Tan (Grey Pair)
68	Violet	67	Tan (Violet Pair)
70	Blue	69	Tan (Blue Pair)
72	Green	71	Tan (Green Pair)
74	Yellow	73	Tan (Yellow Pair)
76	Orange	75	Tan (Orange Pair)
78	Red	77	Tan (Red Pair)
80	Brown	79	Tan (Brown Pair)
82	Black	81	Tan (Black Pair)
84	White	83	Tan (White Pair)
86	Grey	85	Tan (Grey Pair)
88	Violet	87	Tan (Violet Pair)
90	Blue	89	Tan (Blue Pair)
92	Green	91	Tan (Green Pair)
94	Yellow	93	Tan (Yellow Pair)
96	Orange	95	Tan (Orange Pair)
98	Red	97	Tan (Red Pair)
100	Brown	99	Tan (Brown Pair)

200-Pin LFH Connector Wiring (Cable 3)			
Pin	Wire Color	Pin	Wire Color
102	Green	101	Tan (Green Pair)
104	Yellow	103	Tan (Yellow Pair)
106	Orange	105	Tan (Orange Pair)
108	Red	107	Tan (Red Pair)
110	Brown	109	Tan (Brown Pair)
112	Black	111	Tan (Black Pair)
114	White	113	Tan (White Pair)
116	Grey	115	Tan (Grey Pair)
118	Violet	117	Tan (Violet Pair)
120	Blue	119	Tan (Blue Pair)
122	Green	121	Tan (Green Pair)
124	Yellow	123	Tan (Yellow Pair)
126	Orange	125	Tan (Orange Pair)
128	Red	127	Tan (Red Pair)
130	Brown	129	Tan (Brown Pair)
132	Black	131	Tan (Black Pair)
134	White	133	Tan (White Pair)
136	Grey	135	Tan (Grey Pair)
138	Violet	137	Tan (Violet Pair)
140	Blue	139	Tan (Blue Pair)
142	Green	141	Tan (Green Pair)
144	Yellow	143	Tan (Yellow Pair)
146	Orange	145	Tan (Orange Pair)
148	Red	147	Tan (Red Pair)
150	Brown	149	Tan (Brown Pair)

200-Pin LFH Connector Wiring (Cable 4)			
Pin	Wire Color	Pin	Wire Color
152	Green	151	Tan (Green Pair)
154	Yellow	153	Tan (Yellow Pair)
156	Orange	155	Tan (Orange Pair)
158	Red	157	Tan (Red Pair)
160	Brown	159	Tan (Brown Pair)
162	Black	161	Tan (Black Pair)
164	White	163	Tan (White Pair)
166	Grey	165	Tan (Grey Pair)
168	Violet	167	Tan (Violet Pair)
170	Blue	169	Tan (Blue Pair)
172	Green	171	Tan (Green Pair)
174	Yellow	173	Tan (Yellow Pair)
176	Orange	175	Tan (Orange Pair)
178	Red	177	Tan (Red Pair)
180	Brown	179	Tan (Brown Pair)
182	Black	181	Tan (Black Pair)
184	White	183	Tan (White Pair)
186	Grey	185	Tan (Grey Pair)
188	Violet	187	Tan (Violet Pair)
190	Blue	189	Tan (Blue Pair)
192	Green	191	Tan (Green Pair)
194	Yellow	193	Tan (Yellow Pair)
196	Orange	195	Tan (Orange Pair)
198	Red	197	Tan (Red Pair)
200	Brown	199	Tan (Brown Pair)

End A



Wire Color	Pin	Wire Color	Pin	Pin	Wire Color	Pin	Wire Color
Brown	200	Tan	101	100	Brown	1	Tan
Tan	199	Green	102	99	Tan	2	Green
Red	198	Tan	103	98	Red	3	Tan
Tan	197	Yellow	104	97	Tan	4	Yellow
Orange	196	Tan	105	96	Orange	5	Tan
Tan	195	Orange	106	95	Tan	6	Orange
Yellow	194	Tan	107	94	Yellow	7	Tan
Tan	193	Red	108	93	Tan	8	Red
Green	192	Tan	109	92	Green	9	Tan
Tan	191	Brown	110	91	Tan	10	Brown
Blue	190	Tan	111	90	Blue	11	Tan
Tan	189	Black	112	89	Tan	12	Black
Violet	188	Tan	113	88	Violet	13	Tan
Tan	187	White	114	87	Tan	14	White
Grey	186	Tan	115	86	Grey	15	Tan
Tan	185	Grey	116	85	Tan	16	Grey
White	184	Tan	117	84	White	17	Tan
Tan	183	Violet	118	83	Tan	18	Violet
Black	182	Tan	119	82	Black	19	Tan
Tan	181	Blue	120	81	Tan	20	Blue
Brown	180	Tan	121	80	Brown	21	Tan
Tan	179	Green	122	79	Tan	22	Green
Red	178	Tan	123	78	Red	23	Tan
Tan	177	Yellow	124	77	Tan	24	Yellow
Orange	176	Tan	125	76	Orange	25	Tan
Tan	175	Orange	126	75	Tan	26	Orange
Yellow	174	Tan	127	74	Yellow	27	Tan
Tan	173	Red	128	73	Tan	28	Red
Green	172	Tan	129	72	Green	29	Tan
Tan	171	Brown	130	71	Tan	30	Brown
Blue	170	Tan	131	70	Blue	31	Tan
Tan	169	Black	132	69	Tan	32	Black
Violet	168	Tan	133	68	Violet	33	Tan
Tan	167	White	134	67	Tan	34	White
Grey	166	Tan	135	66	Grey	35	Tan
Tan	165	Grey	136	65	Tan	36	Grey
White	164	Tan	137	64	White	37	Tan
Tan	163	Violet	138	63	Tan	38	Violet
Black	162	Tan	139	62	Black	39	Tan
Tan	161	Blue	140	61	Tan	40	Blue
Brown	160	Tan	141	60	Brown	41	Tan
Tan	159	Green	142	59	Tan	42	Green
Red	158	Tan	143	58	Red	43	Tan
Tan	157	Yellow	144	57	Tan	44	Yellow
Orange	156	Tan	145	56	Orange	45	Tan
Tan	155	Orange	146	55	Tan	46	Orange
Yellow	154	Tan	147	54	Yellow	47	Tan
Tan	153	Red	148	53	Tan	48	Red
Green	152	Tan	149	52	Green	49	Tan
Tan	151	Brown	150	51	Tan	50	Brown

View on wiring side of Female connector

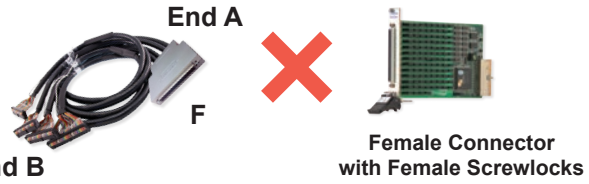
⌒ Denotes Twisted Pairing ie. Pins 1 and 2 use paired wires

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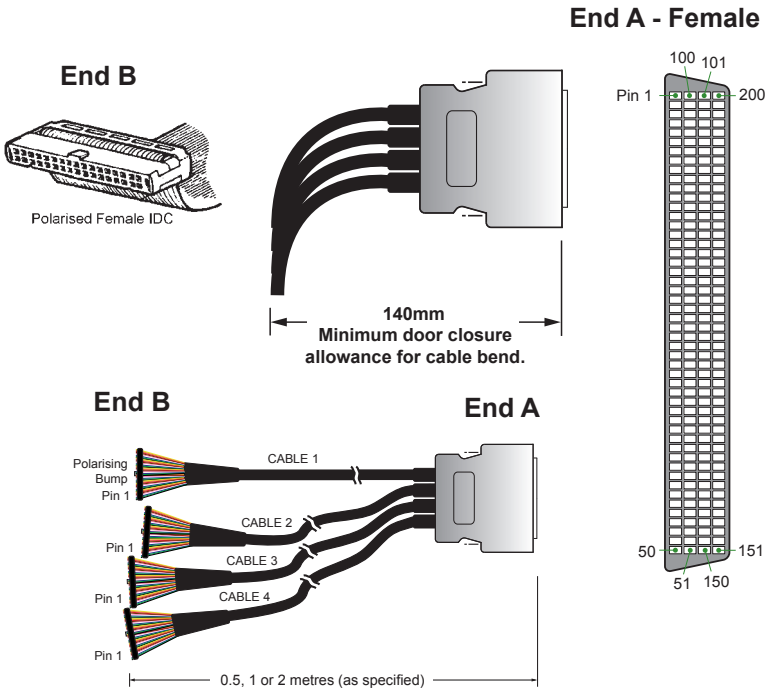
200-Pin LFH Cable Assembly - Female to 50-Pin Ribbon (Female)

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

- High Specification Cable
- 4 Wire Bundles to Improve Flexibility
- Strain Relief
- Fully Screened Cable Construction
- Fully Color Coded to Ensure Easy Connection







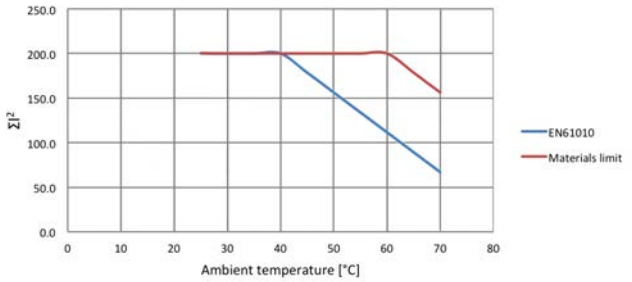
Wiring Schedule information can be found on the next page of this document.

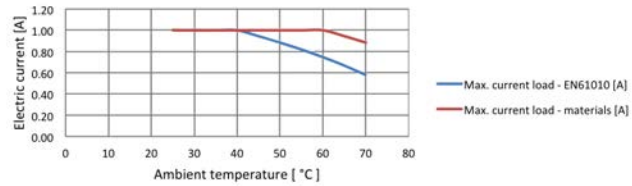
Technical Specification

Connector Type (End A):	200-Pin LFH
Gender	Female
Securing Method	4-40 UNC screwlocks, female
Connector Type (End B):	4 off x 50-Pin ribbon, 0.1" (2.54mm) pitch
Gender	Female,
Securing Method	Push fit
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150VDC
Insulation Resistance	1000MOhm
Connector (End A):	
Contact Material	Gold over nickel
Contact Resistance	<20mOhm
Cable Exit	Rear
Overall Size (Approx)	H97 x W18 x D84.7mm
Connectors (End B):	
Contact Material	Phosphor bronze/Au flash
Contact Resistance	<20mOhm
Cable Exit	Side
Overall Size (Approx)	H17 x W68 x D6mm
Cable Type:	4 off Identified x 50-Pin twisted pair ribbon cable with twisted pairs of the odd and even wires (1 & 2, 3 & 4, etc) 1.27mm pitch.
Conductor: Material	Tinned copper
Strands	7/36 (28AWG)
Resistance	0.2Ω/m
Insulation	PVC
Outer Sleeve	PVC
Screened Construction	Yes
Additional Braided Sleeve	No
Cable O/D	10mm (Individual cables)
Minimum Bend Radius	25mm
Door Closure Allowance	140mm (see diagram)

Notes:
Other cable lengths can be supplied in multiples of 0.5m.

Characteristic Plots for 40-971A-200-1m





The top graph shows the permitted ΣI² 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 bottom 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 ΣI² is complied with.

Product Order Codes

200-Pin LFH Cable Assy, 1A, Male to 50-Pin Ribbon, Female,

0.5m Long	**40-971A-200-0.5m-FF**
1.0m Long	**40-971A-200-1m-FF**
2.0m Long	**40-971A-200-2m-FF**

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Wiring Schedule for 200-Pin LFH to 50-Pin IDC Female to Female

End B

CABLE 1						
Color	200-Pin Connector Pin No.			200-Pin Connector Pin No.		Color
Green	2	2	1	1		Tan
Yellow	4	4	3	3		Tan
Orange	6	6	5	5		Tan
Red	8	8	7	7		Tan
Brown	10	10	9	9		Tan
Black	12	12	11	11		Tan
White	14	14	13	13		Tan
Grey	16	16	15	15		Tan
Violet	18	18	17	17		Tan
Blue	20	20	19	19		Tan
Green	22	22	21	21		Tan
Yellow	24	24	23	23		Tan
Orange	26	26	25	25		Tan
Red	28	28	27	27		Tan
Brown	30	30	29	29		Tan
Black	32	32	31	31		Tan
White	34	34	33	33		Tan
Grey	36	36	35	35		Tan
Violet	38	38	37	37		Tan
Blue	40	40	39	39		Tan
Green	42	42	41	41		Tan
Yellow	44	44	43	43		Tan
Orange	46	46	45	45		Tan
Red	48	48	47	47		Tan
Brown	50	50	49	49		Tan

CABLE 2						
Color	200-Pin Connector Pin No.			200-Pin Connector Pin No.		Color
Green	52	2	1	51		Tan
Yellow	54	4	3	53		Tan
Orange	56	6	5	55		Tan
Red	58	8	7	57		Tan
Brown	60	10	9	59		Tan
Black	62	12	11	61		Tan
White	64	14	13	63		Tan
Grey	66	16	15	65		Tan
Violet	68	18	17	67		Tan
Blue	70	20	19	69		Tan
Green	72	22	21	71		Tan
Yellow	74	24	23	73		Tan
Orange	76	26	25	75		Tan
Red	78	28	27	77		Tan
Brown	80	30	29	79		Tan
Black	82	32	31	81		Tan
White	84	34	33	83		Tan
Grey	86	36	35	85		Tan
Violet	88	38	37	87		Tan
Blue	90	40	39	89		Tan
Green	92	42	41	91		Tan
Yellow	94	44	43	93		Tan
Orange	96	46	45	95		Tan
Red	98	48	47	97		Tan
Brown	100	50	49	99		Tan

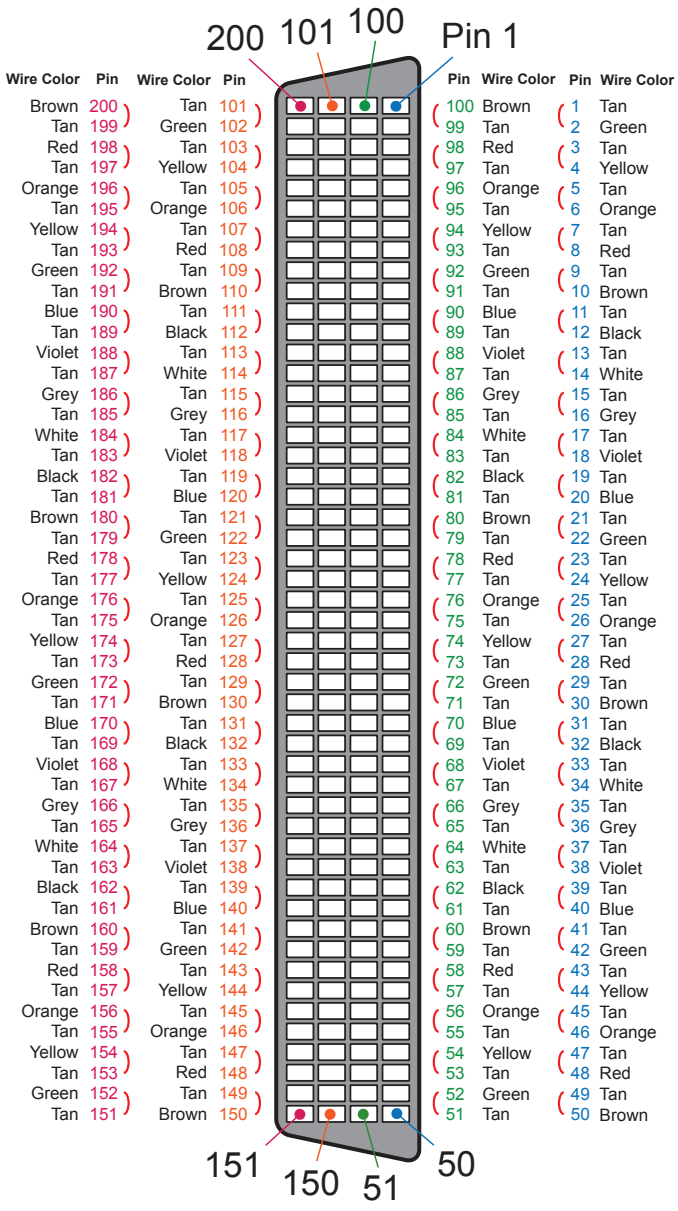
CABLE 3						
Color	200-Pin Connector Pin No.			200-Pin Connector Pin No.		Color
Green	102	2	1	101		Tan
Yellow	104	4	3	103		Tan
Orange	106	6	5	105		Tan
Red	108	8	7	107		Tan
Brown	110	10	9	109		Tan
Black	112	12	11	111		Tan
White	114	14	13	113		Tan
Grey	116	16	15	115		Tan
Violet	118	18	17	117		Tan
Blue	120	20	19	119		Tan
Green	122	22	21	121		Tan
Yellow	124	24	23	123		Tan
Orange	126	26	25	125		Tan
Red	128	28	27	127		Tan
Brown	130	30	29	129		Tan
Black	132	32	31	131		Tan
White	134	34	33	133		Tan
Grey	136	36	35	135		Tan
Violet	138	38	37	137		Tan
Blue	140	40	39	139		Tan
Green	142	42	41	141		Tan
Yellow	144	44	43	143		Tan
Orange	146	46	45	145		Tan
Red	148	48	47	147		Tan
Brown	150	50	49	149		Tan

CABLE 4						
Color	200-Pin Connector Pin No.			200-Pin Connector Pin No.		Color
Green	152	2	1	151		Tan
Yellow	154	4	3	153		Tan
Orange	156	6	5	155		Tan
Red	158	8	7	157		Tan
Brown	160	10	9	159		Tan
Black	162	12	11	161		Tan
White	164	14	13	163		Tan
Grey	166	16	15	165		Tan
Violet	168	18	17	167		Tan
Blue	170	20	19	169		Tan
Green	172	22	21	171		Tan
Yellow	174	24	23	173		Tan
Orange	176	26	25	175		Tan
Red	178	28	27	177		Tan
Brown	180	30	29	179		Tan
Black	182	32	31	181		Tan
White	184	34	33	183		Tan
Grey	186	36	35	185		Tan
Violet	188	38	37	187		Tan
Blue	190	40	39	189		Tan
Green	192	42	41	191		Tan
Yellow	194	44	43	193		Tan
Orange	196	46	45	195		Tan
Red	198	48	47	197		Tan
Brown	200	50	49	199		Tan

Female 50-Pin IDC Connectors

Note: The cables are formed of twisted pairs of the odd and even wires (1&2, 3&4, etc)

End A



Wire Color	Pin	Wire Color	Pin	Pin	Wire Color	Pin	Wire Color
Brown	200	Tan	101	100	Brown	1	Tan
Tan	199	Green	102	99	Tan	2	Green
Red	198	Tan	103	98	Red	3	Tan
Tan	197	Yellow	104	97	Tan	4	Yellow
Orange	196	Tan	105	96	Orange	5	Tan
Tan	195	Orange	106	95	Tan	6	Orange
Yellow	194	Tan	107	94	Yellow	7	Tan
Tan	193	Red	108	93	Tan	8	Red
Green	192	Tan	109	92	Green	9	Tan
Tan	191	Brown	110	91	Tan	10	Brown
Blue	190	Tan	111	90	Blue	11	Tan
Tan	189	Black	112	89	Tan	12	Black
Violet	188	Tan	113	88	Violet	13	Tan
Tan	187	White	114	87	Tan	14	White
Grey	186	Tan	115	86	Grey	15	Tan
Tan	185	Grey	116	85	Tan	16	Grey
White	184	Tan	117	84	White	17	Tan
Tan	183	Violet	118	83	Tan	18	Violet
Black	182	Tan	119	82	Black	19	Tan
Tan	181	Blue	120	81	Tan	20	Blue
Brown	180	Tan	121	80	Brown	21	Tan
Tan	179	Green	122	79	Tan	22	Green
Red	178	Tan	123	78	Red	23	Tan
Tan	177	Yellow	124	77	Tan	24	Yellow
Orange	176	Tan	125	76	Orange	25	Tan
Tan	175	Orange	126	75	Tan	26	Orange
Yellow	174	Tan	127	74	Yellow	27	Tan
Tan	173	Red	128	73	Tan	28	Red
Green	172	Tan	129	72	Green	29	Tan
Tan	171	Brown	130	71	Tan	30	Brown
Blue	170	Tan	131	70	Blue	31	Tan
Tan	169	Black	132	69	Tan	32	Black
Violet	168	Tan	133	68	Violet	33	Tan
Tan	167	White	134	67	Tan	34	White
Grey	166	Tan	135	66	Grey	35	Tan
Tan	165	Grey	136	65	Tan	36	Grey
White	164	Tan	137	64	White	37	Tan
Tan	163	Violet	138	63	Tan	38	Violet
Black	162	Tan	139	62	Black	39	Tan
Tan	161	Blue	140	61	Tan	40	Blue
Brown	160	Tan	141	60	Brown	41	Tan
Tan	159	Green	142	59	Tan	42	Green
Red	158	Tan	143	58	Red	43	Tan
Tan	157	Yellow	144	57	Tan	44	Yellow
Orange	156	Tan	145	56	Orange	45	Tan
Tan	155	Orange	146	55	Tan	46	Orange
Yellow	154	Tan	147	54	Yellow	47	Tan
Tan	153	Red	148	53	Tan	48	Red
Green	152	Tan	149	52	Green	49	Tan
Tan	151	Brown	150	51	Tan	50	Brown

View on wiring side of Female connector

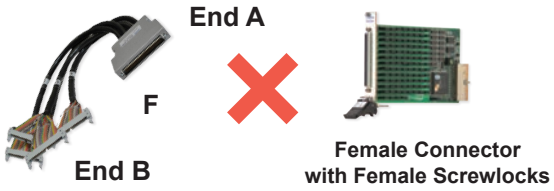
Denotes Twisted Pairing ie. Pins 1 and 2 use paired wires

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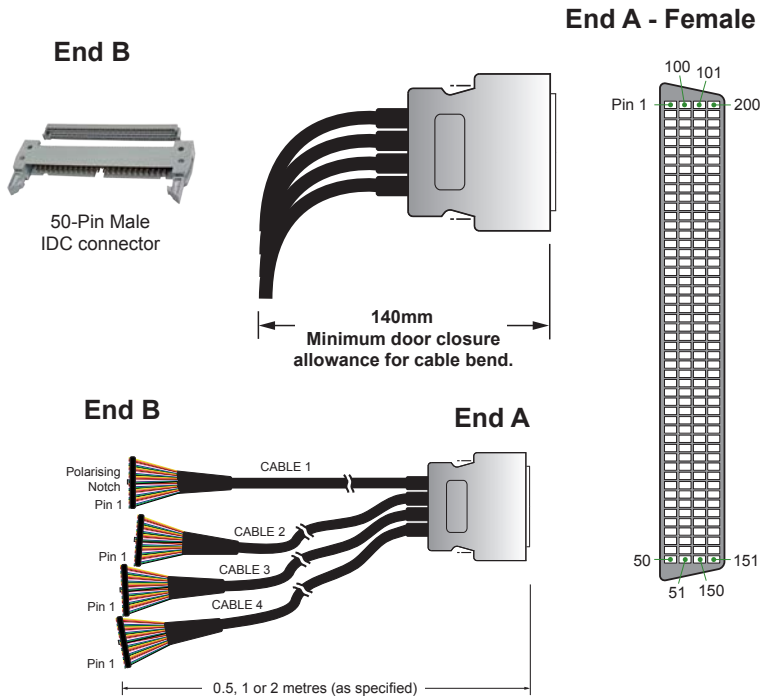
200-Pin LFH Cable Assy - Female to 50-Pin Ribbon (Male)

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

- High Specification Cable
- 4 Wire Bundles to Improve Flexibility
- Strain Relief
- Fully Screened Cable Construction
- Fully Color Coded to Ensure Easy Connection







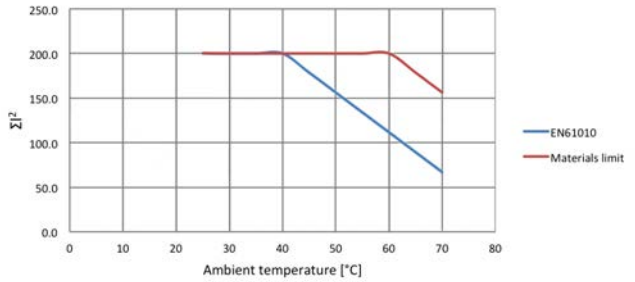
Wiring Schedule information can be found on the next page of this document.

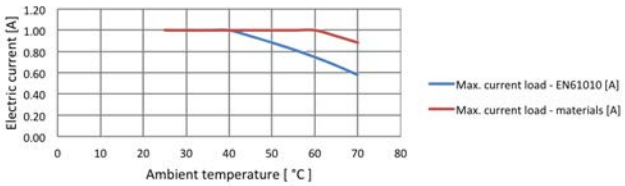
Technical Specification

Connector Type (End A):	200-Pin LFH
Gender	Female
Securing Method	4-40 UNC screwlocks, female
Connector Type (End B):	4 off x 50-Pin ribbon, 0.1" (2.54mm) pitch
Gender	Male,
Securing Method	Latches
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150VDC
Insulation Resistance	1000MOhm
Connector (End A):	
Contact Material	Gold over nickel
Contact Resistance	<20mOhm
Cable Exit	Rear
Overall Size (Approx)	H97 x W18 x D84.7mm
Connectors (End B):	
Contact Material	Cu alloy/selective Au flash
Contact Resistance	<20mOhm
Cable Exit	Side
Overall Size (Approx)	H30.4 x W82.3 x D8mm
Cable Type:	4 off Identified x 50-Pin twisted pair ribbon cable with twisted pairs of the odd and even wires (1 & 2, 3 & 4, etc) 1.27mm pitch.
Conductor: Material	Tinned copper
Strands	7/36 (28AWG)
Resistance	0.2Ω/m
Insulation	PVC
Outer Sleeve	PVC
Screened Construction	Yes
Additional Braided Sleeve	No
Cable O/D	10mm (Individual cables)
Minimum Bend Radius	25mm
Door Closure Allowance	140mm (see diagram)

Notes:
Other cable lengths can be supplied in multiples of 0.5m.

Characteristic Plots for 40-971A-200-1m





The top graph shows the permitted ΣI² 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 bottom 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 ΣI² is complied with.

Product Order Codes

200-Pin LFH Cable Assy, 1A, Female to 50-Pin Ribbon, Male,

0.5m Long	**40-971A-200-0.5m-FM**
1.0m Long	**40-971A-200-1m-FM**
2.0m Long	**40-971A-200-2m-FM**

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Wiring Schedule for 200-Pin LFH to 50-Pin IDC Female to Male

End B

200-Pin Connector Color	Pin No.		CABLE 1	200-Pin Connector Pin No.	Color
Tan	1	1		2	Green
Tan	3	3		4	Yellow
Tan	5	5		6	Orange
Tan	7	7		8	Red
Tan	9	9		10	Brown
Tan	11	11		12	Black
Tan	13	13		14	White
Tan	15	15		16	Grey
Tan	17	17		18	Violet
Tan	19	19		20	Blue
Tan	21	21		22	Green
Tan	23	23		24	Yellow
Tan	25	25		26	Orange
Tan	27	27		28	Red
Tan	29	29		30	Brown
Tan	31	31		32	Black
Tan	33	33		34	White
Tan	35	35		36	Grey
Tan	37	37		38	Violet
Tan	39	39		40	Blue
Tan	41	41		42	Green
Tan	43	43		44	Yellow
Tan	45	45		46	Orange
Tan	47	47		48	Red
Tan	49	49		50	Brown

200-Pin Connector Color	Pin No.		CABLE 2	200-Pin Connector Pin No.	Color
Tan	51	1		2	Green
Tan	53	3		4	Yellow
Tan	55	5		6	Orange
Tan	57	7		8	Red
Tan	59	9		10	Brown
Tan	61	11		12	Black
Tan	63	13		14	White
Tan	65	15		16	Grey
Tan	67	17		18	Violet
Tan	69	19		20	Blue
Tan	71	21		22	Green
Tan	73	23		24	Yellow
Tan	75	25		26	Orange
Tan	77	27		28	Red
Tan	79	29		30	Brown
Tan	81	31		32	Black
Tan	83	33		34	White
Tan	85	35		36	Grey
Tan	87	37		38	Violet
Tan	89	39		40	Blue
Tan	91	41		42	Green
Tan	93	43		44	Yellow
Tan	95	45		46	Orange
Tan	97	47		48	Red
Tan	99	49		50	Brown

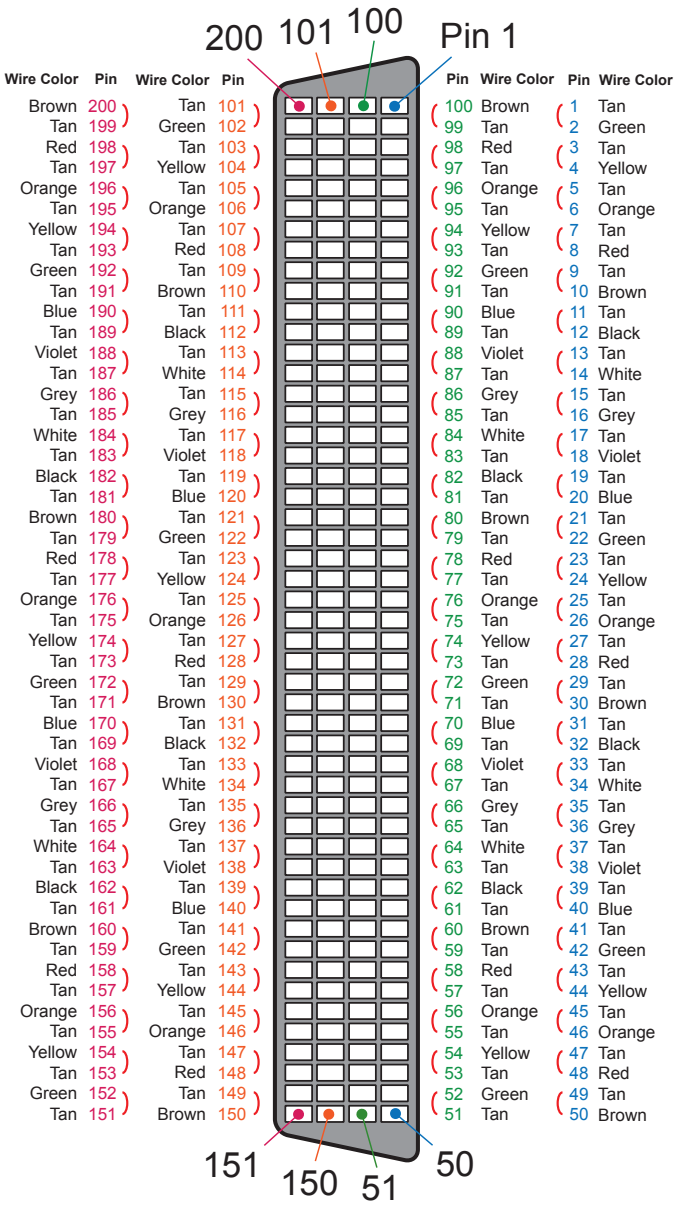
200-Pin Connector Color	Pin No.		CABLE 3	200-Pin Connector Pin No.	Color
Tan	101	1		2	Green
Tan	103	3		4	Yellow
Tan	105	5		6	Orange
Tan	107	7		8	Red
Tan	109	9		10	Brown
Tan	111	11		12	Black
Tan	113	13		14	White
Tan	115	15		16	Grey
Tan	117	17		18	Violet
Tan	119	19		20	Blue
Tan	121	21		22	Green
Tan	123	23		24	Yellow
Tan	125	25		26	Orange
Tan	127	27		28	Red
Tan	129	29		30	Brown
Tan	131	31		32	Black
Tan	133	33		34	White
Tan	135	35		36	Grey
Tan	137	37		38	Violet
Tan	139	39		40	Blue
Tan	141	41		42	Green
Tan	143	43		44	Yellow
Tan	145	45		46	Orange
Tan	147	47		48	Red
Tan	149	49		50	Brown

200-Pin Connector Color	Pin No.		CABLE 4	200-Pin Connector Pin No.	Color
Tan	151	1		2	Green
Tan	153	3		4	Yellow
Tan	155	5		6	Orange
Tan	157	7		8	Red
Tan	159	9		10	Brown
Tan	161	11		12	Black
Tan	163	13		14	White
Tan	165	15		16	Grey
Tan	167	17		18	Violet
Tan	169	19		20	Blue
Tan	171	21		22	Green
Tan	173	23		24	Yellow
Tan	175	25		26	Orange
Tan	177	27		28	Red
Tan	179	29		30	Brown
Tan	181	31		32	Black
Tan	183	33		34	White
Tan	185	35		36	Grey
Tan	187	37		38	Violet
Tan	189	39		40	Blue
Tan	191	41		42	Green
Tan	193	43		44	Yellow
Tan	195	45		46	Orange
Tan	197	47		48	Red
Tan	199	49		50	Brown

Male 50-Pin IDC Connectors

Note: The cables are formed of twisted pairs of the odd and even wires (1&2, 3&4, etc)

End A



Wire Color	Pin	Wire Color	Pin	Pin	Wire Color	Pin	Wire Color
Brown	200	Tan	101	100	Brown	1	Tan
Tan	199	Green	102	99	Tan	2	Green
Red	198	Tan	103	98	Red	3	Tan
Tan	197	Yellow	104	97	Tan	4	Yellow
Orange	196	Tan	105	96	Orange	5	Tan
Tan	195	Orange	106	95	Tan	6	Orange
Yellow	194	Tan	107	94	Yellow	7	Tan
Tan	193	Red	108	93	Tan	8	Red
Green	192	Tan	109	92	Green	9	Tan
Tan	191	Brown	110	91	Tan	10	Brown
Blue	190	Tan	111	90	Blue	11	Tan
Tan	189	Black	112	89	Tan	12	Black
Violet	188	Tan	113	88	Violet	13	Tan
Tan	187	White	114	87	Tan	14	White
Grey	186	Tan	115	86	Grey	15	Tan
Tan	185	Grey	116	85	Tan	16	Grey
White	184	Tan	117	84	White	17	Tan
Tan	183	Violet	118	83	Tan	18	Violet
Black	182	Tan	119	82	Black	19	Tan
Tan	181	Blue	120	81	Tan	20	Blue
Brown	180	Tan	121	80	Brown	21	Tan
Tan	179	Green	122	79	Tan	22	Green
Red	178	Tan	123	78	Red	23	Tan
Tan	177	Yellow	124	77	Tan	24	Yellow
Orange	176	Tan	125	76	Orange	25	Tan
Tan	175	Orange	126	75	Tan	26	Orange
Yellow	174	Tan	127	74	Yellow	27	Tan
Tan	173	Red	128	73	Tan	28	Red
Green	172	Tan	129	72	Green	29	Tan
Tan	171	Brown	130	71	Tan	30	Brown
Blue	170	Tan	131	70	Blue	31	Tan
Tan	169	Black	132	69	Tan	32	Black
Violet	168	Tan	133	68	Violet	33	Tan
Tan	167	White	134	67	Tan	34	White
Grey	166	Tan	135	66	Grey	35	Tan
Tan	165	Grey	136	65	Tan	36	Grey
White	164	Tan	137	64	White	37	Tan
Tan	163	Violet	138	63	Tan	38	Violet
Black	162	Tan	139	62	Black	39	Tan
Tan	161	Blue	140	61	Tan	40	Blue
Brown	160	Tan	141	60	Brown	41	Tan
Tan	159	Green	142	59	Tan	42	Green
Red	158	Tan	143	58	Red	43	Tan
Tan	157	Yellow	144	57	Tan	44	Yellow
Orange	156	Tan	145	56	Orange	45	Tan
Tan	155	Orange	146	55	Tan	46	Orange
Yellow	154	Tan	147	54	Yellow	47	Tan
Tan	153	Red	148	53	Tan	48	Red
Green	152	Tan	149	52	Green	49	Tan
Tan	151	Brown	150	51	Tan	50	Brown

View on wiring side of Female connector

⌒ Denotes Twisted Pairing ie. Pins 1 and 2 use paired wires

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200-Pin LFH Connector Block - Female

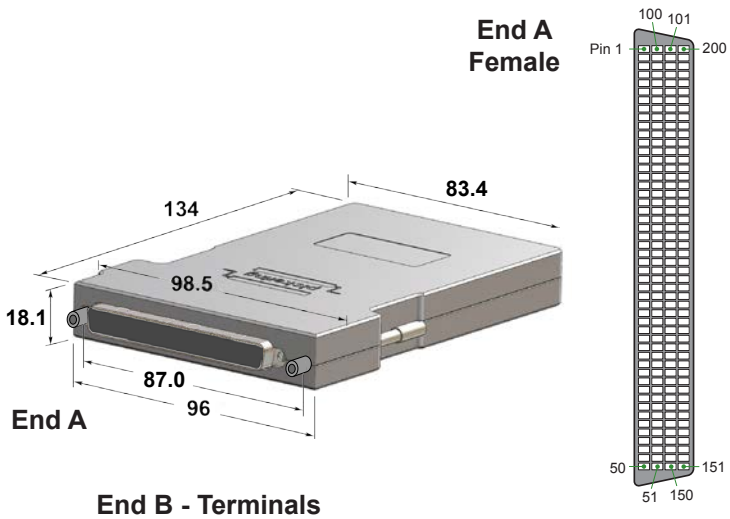
This Connector Block is Not Suitable for Connection to a Pickering Switching Product

- **Connector and PCB Only or Connector, PCB and Backshell**
- **Female Screwlocks**
- **Cable Clamp in Backshell**
- **Easy to Use Rising Cage Screw Terminals**

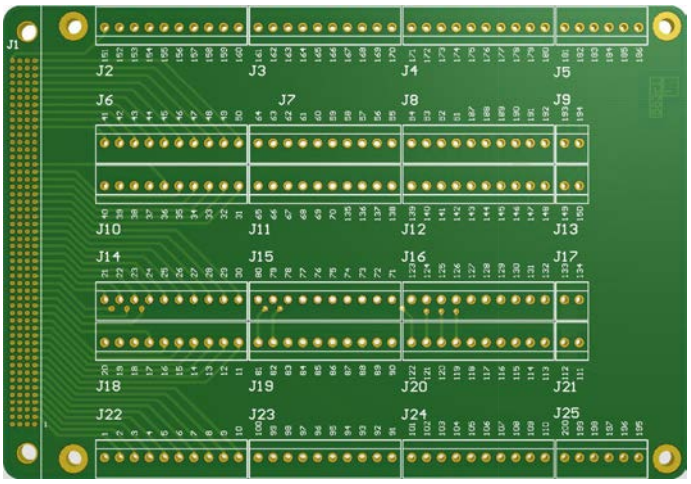
Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

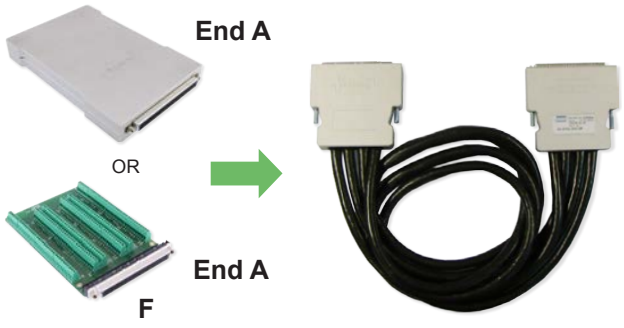
The screw terminals use a rising cage clamp mechanism to minimize risk of copper strand breakage. PTFE/PFA cables are recommended for use with this connector block to maximise copper cross-sectional area and insulation properties. The breakdown voltage of the connector block is controlled by clearances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

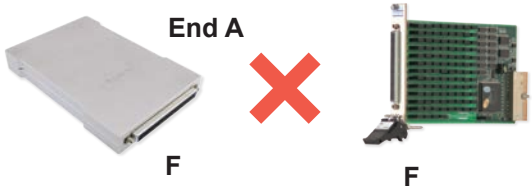
This connector block uses female screwlocks and is ideal for mating to Pickering cables. Connector blocks supplied without a backshell do not include cable strain relief.

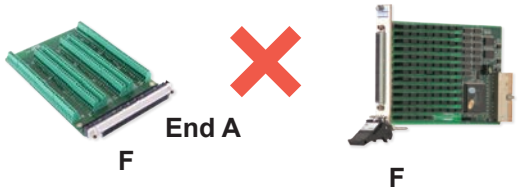


End B - Terminals









Technical Specification

Connector Type (End A):	200-Pin LFH
Gender	Female
Securing Method:	
Product with Backshell	4-40 UNC screwlocks, female
Product without Backshell	4-40 UNC screwlocks, female
Wire Connection (End B):	
Gender	Female
Connection Method	Rising cage screw terminals
Connector Block Ratings:	
Maximum Current	1A
Maximum Voltage	150VDC
Cable Exit	Rear - 32 x 11mm
Overall Size (Approx)	H98.5 x W18.1 x D138mm
200-Pin LFH:	
Contact Material	Gold over nickel
Contact Resistance	<20mOhms
Screw Terminals:	
Maximum Wire Size	20AWG
Recommended Insulation	PTFE/PFA
Additional Cable Clamp	Yes (in backshell)

Notes:
The integral screw threads on the 200-Pin LFH connector are M3 rather than 4-40 UNC. The protruding 4-40 UNC screwlocks are fitted into the M3 threaded holes.

Product Order Codes

200-Pin LFH PXI Connector Block, 1A, Screw Terminal,

Female with Backshell	**B200LFR-2F-5B**
Female without Backshell	**B200LFX-2F-5B**

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200-Pin LFH Connector - Male

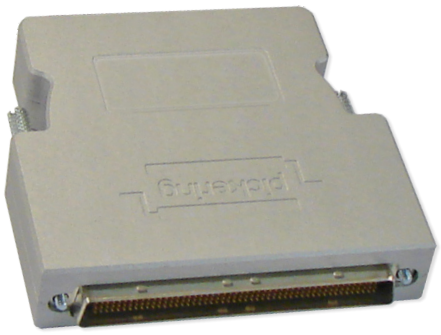
This Connector is Not Suitable for Connection to a Pickering Switching Product

- **Connector and Backshell**
- **Cable Clamp in Backshell**
- **Soldered Cable Termination**
- **M3 Screwlocks - Male**



This accessory is designed to allow users to directly terminate with soldered connections to the 200-Pin LFH connector. It is difficult to terminate a cable to the 200-Pin LFH because of the high density and fine pitch. Pickering Interfaces recommend the use of purchased cable assemblies for applications where most or all of the contacts are in use.

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





50-Pin Connector Strip

(4 x 50-Pin Strips are included with the connector kit)

Technical Specification

Connector Type (End A):	200-Pin LFH
Gender	Male
Securing Method	M3 screwlocks, male
Wire Connection (End B):	
Gender	Male
Connection Method	Solder pin
Connector Ratings:	
Maximum Current	1A
Maximum Voltage	150VDC
Cable Exit:	Dual rear exit
Cable Exit Size	Each exit: 4.8 x 24mm
Overall Size (Approx)	H87 x W18 x D84mm
200-Pin LFH:	
Contact Material	Gold over nickel
Contact Resistance	<20mOhm
Wire Connection:	
Maximum Wire Size	28AWG
Recommended Wire	50-Pin twisted pair ribbon cable, 1.27mm pitch,
Additional Cable Clamp	Yes (in backshell)
Notes: This connector is supplied in kit form.	

Product Order Codes

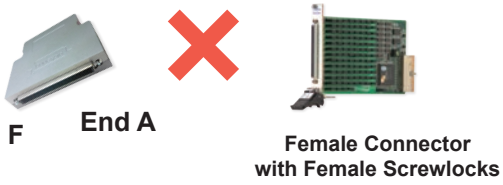
200-Pin LFH Connector, 1A, Solder Pin, with Backshell, Male with M3 Screwlocks **40-961A-200-M3-M**

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200-Pin LFH Connector - Female

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

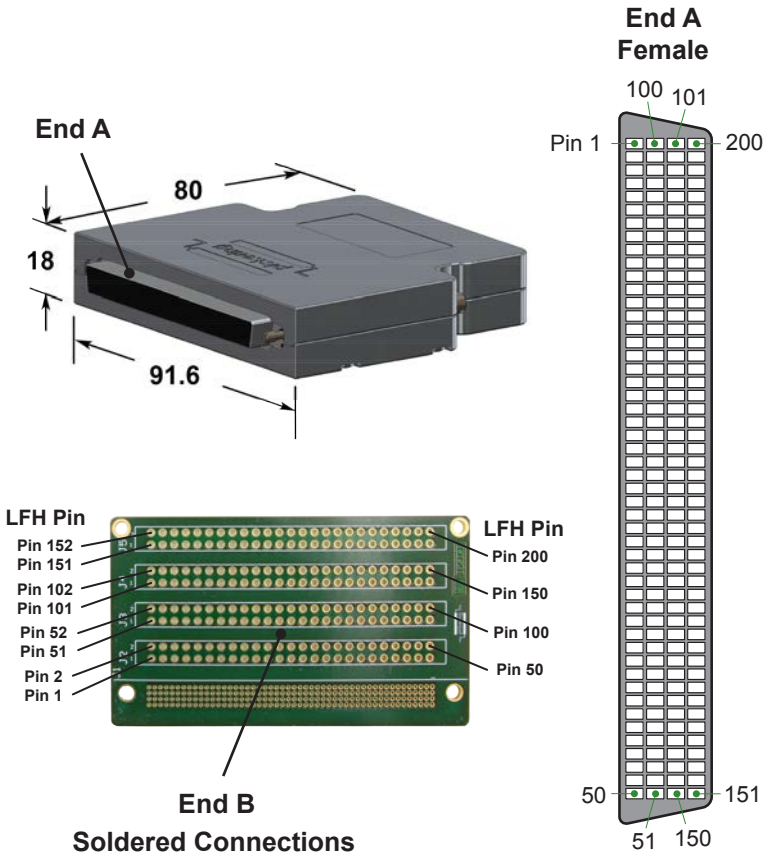
- **Connector only or Connector and Backshell**
- **Cable Clamp in Backshell**
- **Soldered Cable Termination**
- **Male 4-40 UNC Screwlocks**



This accessory is designed to allow users to terminate a cable with soldered connections to a PCB. Pickering Interfaces recommend the use of purchased cable assemblies for applications where most or all of the contacts are in use.

If this 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 (End A):	200-Pin LFH
Gender	Female
Securing Method	
Product with Backshell	4-40 UNC screwlocks, male
Product without Backshell	4-40 UNC screwlocks, male
Wire Connection (End B):	
Gender	Female
Connection Method	Solder to PCB
Connector Ratings:	
Maximum Current	1A
Maximum Voltage	150VDC
Cable Exit:	Dual rear exit
Cable Exit Size	635mm^2
Overall Size (Approx)	H92 x W18 x D84.7mm
200-Pin LFH:	
Contact Material	Gold over nickel
Contact Resistance	<20mOhm
Wire Connection:	
Maximum Wire Size	28AWG
Recommended Insulation	PVC
Additional Cable Clamp	Yes (in backshell)

Notes:
This connector is supplied in kit form.

Product Order Codes

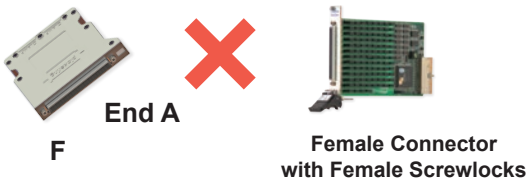
200-Pin LFH Connector, 1A, with Backshell,	
Female with 4-40 UNC Male Screwlocks	**C200LFR-2SP-5A**
Female without Backshell	**C200LFX-2SP-5A**

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200-Pin LFH Connector - Female

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

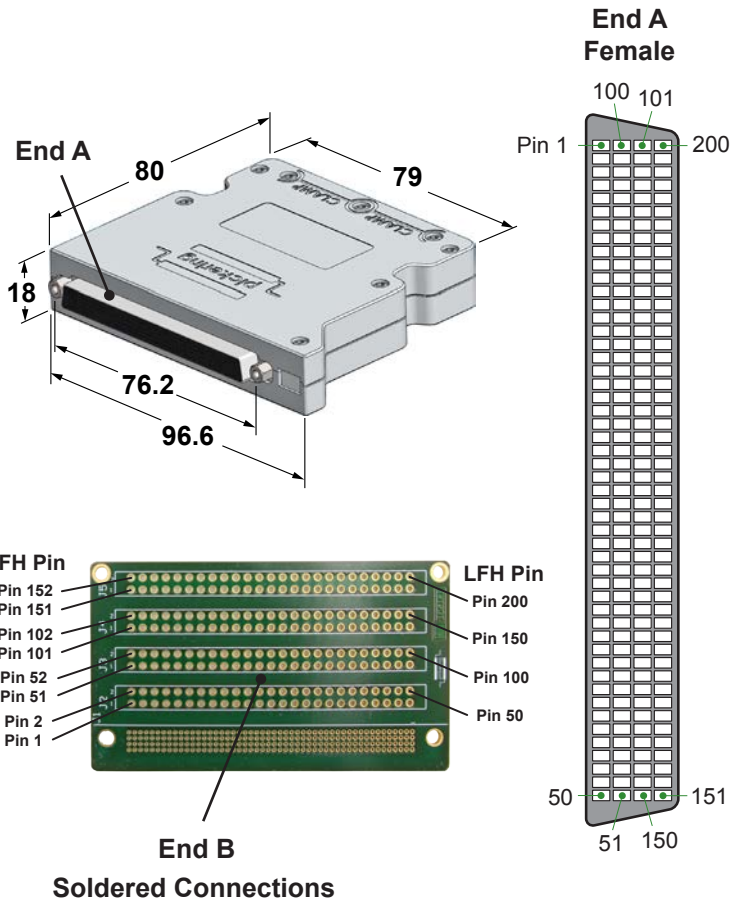
- **Connector only or Connector and Backshell**
- **Cable Clamp in Backshell**
- **Soldered Cable Termination**
- **Female 4-40 UNC or M3 Screwlocks**



This accessory is designed to allow users to terminate a cable with soldered connections to a PCB. Pickering Interfaces recommend the use of purchased cable assemblies for applications where most or all of the contacts are in use.

If this 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 (End A):	200-Pin LFH
Gender	Female
Securing Method:	
Product with Backshell	4-40 UNC or M3 screwlocks, female
Product without Backshell	4-40UNC Screwlocks, female
Wire Connection (End B):	
Gender	Male
Connection Method	Solder to PCB
Connector Ratings:	
Maximum Current	1A
Maximum Voltage	150VDC
Cable Exit:	Dual rear exit
Cable Exit Size	611mm²
Overall Size (Approx)	H97 x W18 x D84.7mm
200-Pin LFH:	
Contact Material	Gold over nickel
Contact Resistance	<20mOhm
Wire Connection:	
Maximum Wire Size	28AWG
Recommended Insulation	PVC
Additional Cable Clamp	Yes (in backshell)

Notes:
This connector is supplied in kit form.

Product Order Codes

200-Pin LFH Connector, 1A, with Backshell,

Female with 4-40 UNC Female Screwlocks	**40-961A-200-F**
Female with M3 Female Screwlocks	**40-961A-200-M3-F**
Female without Backshell	**92-961-200-F**

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Custom Termination

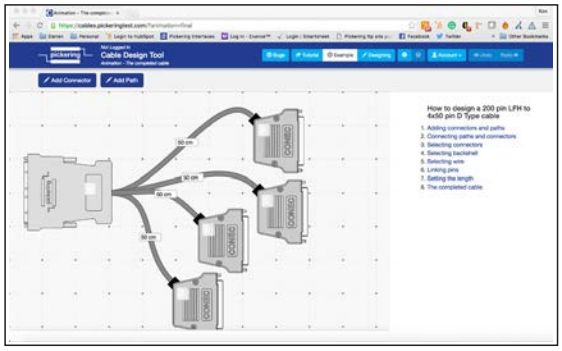
Pickering Interfaces are able to manufacture custom built cable assemblies and backshells that mate with all the connectors we use in our extensive product range and to provide connection solutions for third party products.

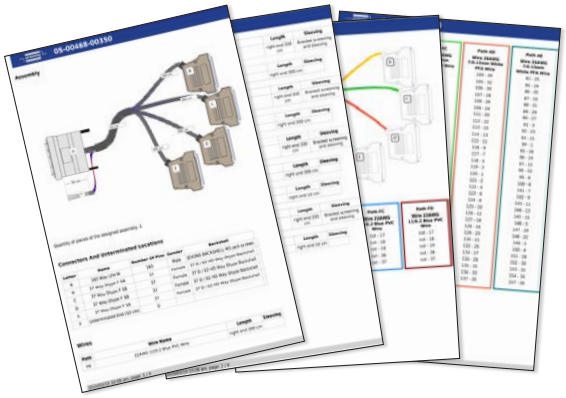
We are able to model and manufacture cable assemblies and other termination arrangements to user notes and drawings, and to deal with simple and complex assemblies, and both small and high volume orders.

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 timescales to a minimum.

NEW - Pickering's Cable Design Tool





Go to **pickeringtest.com/cdt** to find out more.

Over the years, we have received many requests for customized cabling solutions that are often based on our standard cable assemblies but adjusted to match specific application requirements. To help with this, we have introduced our Cable Design Tool – a new graphically based web tool for cable design. We're excited about the features the software includes:

- Graphical design of customized cable assemblies
- Built-in library of standard cable sets to be used as the basis for customization or cables can just be defined from scratch
- The ability to store cable assemblies in the Cloud and develop over time
- Each cable design has a documentation pdf file detailing all of the specifications
- Very detailed design characteristics including the selection of connector types, wire type, pin definitions, pin and cable labeling, cable bundling, length selection, sleeving, comments, etc.
- Runs on popular browsers, Windows, Mac and Linux
- Fully supported on popular tablets: iPad and Android
- Built-in tutorials allow you to get quickly up to speed

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.

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Appendix - Part Number Listing

Cables: 200-Pin LFH Connector to Connector						
End 1	End 2	Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page
Type (inc Screwlocks)	Type (inc Screwlocks)	0.5m Long	1m Long	2m Long		
200-Pin LFH, Male, (4-40 UNC, Male)	200-Pin LFH, Female (4-40 UNC, Male)	A200LMR-200LFR-6A050	A200LMR-200LFR-6A100	A200LMR-200LFR-6A200	Yes (Male end)	4
	200-Pin LFH, Female, (4-40 UNC, Female)	A200LMR-200LFR-5A050	A200LMR-200LFR-5A100	A200LMR-200LFR-5A200	Yes (Male end)	6
	200-Pin LFH, Male, (4-40 UNC, Male)	40-970A-200-0.5m-MM	40-970A-200-1m-MM	40-970A-200-2m-MM	Yes	5
200-Pin LFH, Female, (4-40 UNC, Male)	200-Pin LFH, Female, (4-40 UNC, Male)	A200LFR-200LFR-6A050	A200LFR-200LFR-6A100	A200LFR-200LFR-6A200	No	22
200-Pin LFH, Female, (4-40 UNC, Female)	200-Pin LFH, Female, (4-40 UNC, Female)	40-970A-200-0.5m-FF	40-970A-200-1m-FF	40-970A-200-2m-FF	No	23
200-Pin LFH, Male, (4-40 UNC, Male)	4 x 50-Pin Ribbon, Female, (Push Fit)	40-971A-200-0.5m-MF	40-971A-200-1m-MF	40-971A-200-2m-MF	Yes	9
	4 x 50-Pin Ribbon, Male, (Latches)	40-971A-200-0.5m-MM	40-971A-200-1m-MM	40-971A-200-2m-MM	Yes	11
	4 x 50-Pin D-Sub, Male, (4-40 UNC, Male)	40-971A-200D-0.5m-MM	40-971A-200D-1m-MM	40-971A-200D-2m-MM	Yes	13
	4 x 50-Pin D-Sub, Female, (4-40 UNC, Female)	40-971A-200D-0.5m-MF	40-971A-200D-1m-MF	40-971A-200D-2m-MF	Yes	13
200-Pin LFH, Female, (4-40 UNC, Female)	4 x 50-Pin Ribbon, Female, (Push Fit)	40-971A-200-0.5m-FF	40-971A-200-1m-FF	40-971A-200-2m-FF	No	26
	4 x 50-Pin Ribbon, Male, (Latches)	40-971A-200-0.5m-FM	40-971A-200-1m-FM	40-971A-200-2m-FM	No	28

Cables: 200-Pin LFH Connector to Unterminated						
End 1 (inc Screwlocks)	End 2 Unterminated Options	Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page
		0.5m Long	1m Long	2m Long		
200-Pin LFH, Male, (4-40 UNC, Male)	Tinned Ends	40-972A-200-0.5m-MU	40-972-200-1m-MU	40-972-200-2m-MU	Yes	7
200-Pin LFH, Female, (4-40 UNC, Female)		40-972A-200-0.5m-FU	40-972-200-1m-FU	40-972-200-2m-FU	No	24

Connector Blocks and Cable Connectors: 200-Pin LFH				
Type (inc Screwlocks)	Product Order Code/Part Number		Mates with a Pickering Switching Product	Data Sheet Page
	With Backshell	Without Backshell		
PXI Connector Block, Male (4-40 UNC, Male)	40-965-200-M	92-965-200-M	Yes (PXI)	16
Connector Block, Female (4-40 UNC, Female)	B200LFR-2F-5B	B200LFX-2F-5B	No	30
PCI Connector Block, Male (4-40 UNC, Male)	50-965-200-M	N/A	Yes (PCI)	17
Cable Connector, Male (4-40 UNC, Male)	40-961A-200-M	92-961-200-M	Yes	18
Cable Connector, Male (M3, Male)	40-961A-200-M3-M	N/A	No	31
Cable Connector, Female (4-40 UNC, Male)	C200LFR-2SP-5A	C200LFX-2SP-5A	No	32
Cable Connector, Female (4-40 UNC, Female)	40-961A-200-F	92-961-200-F	No	33
Cable Connector, Female (M3, Female)	40-961A-200-M3-F	N/A	No	33

PCB Connectors: 200-Pin LFH						
Type	Mount	Gender	Screwlocks	Product Order Code/Part Number	Mates with a Pickering Switching Product	Data Sheet Page
PCB Connector	Right Angle PCB Mount	Female	4-40 UNC, Female	40-963-200-RF	No	20
	Straight PCB Mount	Male	4-40 UNC, Female	40-963-200-SM	No	19

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