

INSTALLATION INSTRUCTIONS

LFH200 Cable

This guide describes how to use the National Instruments LFH200 cable to connect the NI PXI-2569/2570 to your system. One end of the LFH200 cable contains an LFH200 connector. The other end of the LFH200 cable contains eight bundles of unterminated, tinned, and stripped cables or eight 25-pin D-SUB connectors. The LFH200 cable provides direct connection between the NI PXI-2569/2570 and your system.

Getting Started

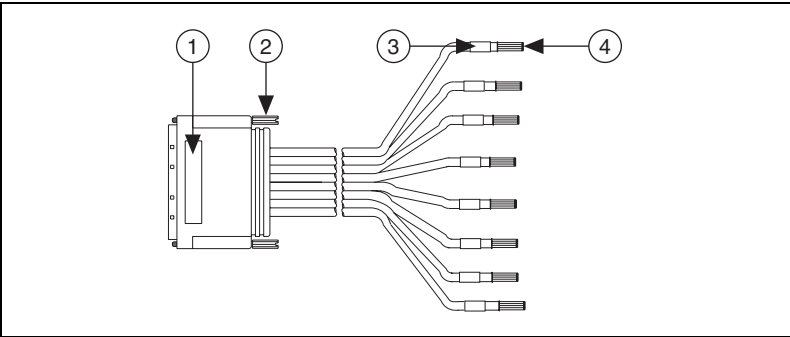
The following items are necessary for connecting the LFH200 cable:

- LFH200 cable
- NI PXI-2569/2570 switch module and documentation

Connecting the LFH200 Cable

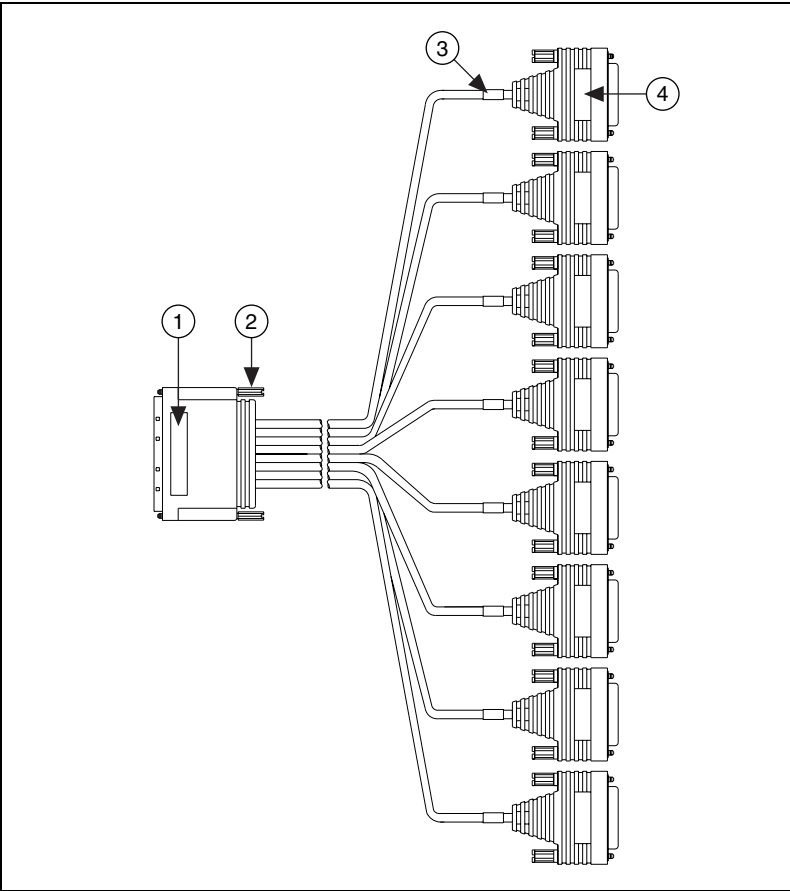
Complete the following steps to connect the LFH200 cable to the NI PXI-2569/2570 and application. Refer to Figures 1 and 2 for illustrations of the LFH200 cable.

1. Connect the LFH200 connector to the connector on the NI PXI-2569/2570.
2. Tighten the thumbscrews.
3. Complete either of the following step, and refer to Tables 1 through 7 to determine how to connect your signals:
 - Connect the unterminated cables to your application.
 - Connect the D-SUB connectors to your application.



- | | |
|--------------------|---|
| 1 LFH200 Connector | 3 Cable Leg Label |
| 2 Thumbscrews | 4 25 Underterminated, Tinned, and Stripped Wire |

Figure 1. LFH200 to Underterminated Wires



- | | |
|--------------------|---------------------------|
| 1 LFH200 Connector | 3 Cable Leg Label |
| 2 Thumbscrews | 4 25-Pin D-SUB Connectors |

Figure 2. LFH200 to 25-Pin D-SUB Connectors

Connectors

The cable in this kit connects an LFH200 connector to eight bundles, J0–J7, of unterminated, tinned, and stripped cables or 25-pin D-SUB connectors. The LFH200 connector provides connection to the NI PXI-2569/2570. The 25-pin D-SUB connectors and unterminated cables provide connection to your application. Figures 3 and 4 show the pinouts for these connectors.

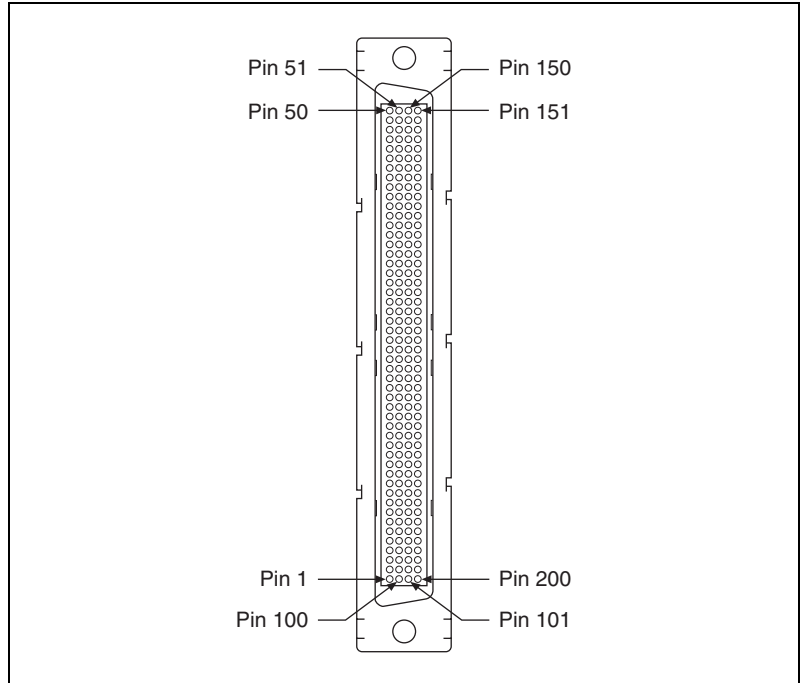


Figure 3. LFH200 Connector

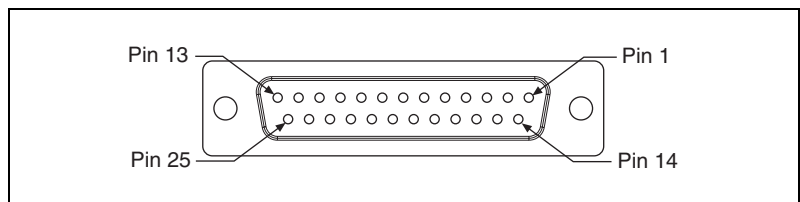


Figure 4. 25-Pin D-SUB Connector

The following tables show how the LFH200 pins correspond to the unterminated cables and D-SUB connectors.

Pin Assignments

Cable Leg J0				
200 LFH Pin #	Bare Wire Color	D-SUB Pin #	NI PXI-2570	NI PXI-2569
1	RED/ORG	1	—	COM99
2	ORG/RED	2	—	COM97
3	BLU/WHT	3	—	COM95
4	WHT/BLU	4	—	COM93
5	BRN/RED	5	—	COM91
6	RED/BRN	6	—	COM89
7	GRY/RED	7	—	COM87
8	RED/GRY	8	—	COM85
9	BLK/BLU	9	—	COM83
10	BLU/BLK	10	—	COM81
11	ORG/WHT	11	NO39	COM79
12	WHT/ORG	12	NO38	COM77
13	BLK/ORG	13	NO37	COM75
14	ORG/BLK	14	NO36	COM73
15	BLK/GRN	15	NO35	COM71
16	GRN/BLK	16	NO34	COM69
17	WHT/GRN	17	NO33	COM67
18	GRN/WHT	18	NO32	COM65
19	WHT/GRY	19	NO31	COM63
20	GRY/WHT	20	NO30	COM61
21	WHT/BRN	21	NO29	COM59
22	BRN/WHT	22	NO28	COM57
23	RED/GRN	23	NO27	COM55
24	GRN/RED	24	NO26	COM53
25	RED/BLU	25	NO25	COM51

Cable Leg J1				
200 LFH Pin #	Bare Wire Color	D-SUB Pin #	NI PXI-2570	NI PXI-2569
26	RED/ORG	1	NO24	COM49
27	ORG/RED	2	NO23	COM47
28	BLU/WHT	3	NO22	COM45
29	WHT/BLU	4	NO21	COM43
30	BRN/RED	5	NO20	COM41
31	RED/BRN	6	NO19	COM39
32	GRY/RED	7	NO18	COM37
33	RED/GRY	8	NO17	COM35
34	BLK/BLU	9	NO16	COM33
35	BLU/BLK	10	NO15	COM31
36	ORG/WHT	11	NO14	COM29
37	WHT/ORG	12	NO13	COM27
38	BLK/ORG	13	NO12	COM25
39	ORG/BLK	14	NO11	COM23
40	BLK/GRN	15	NO10	COM21
41	GRN/BLK	16	NO9	COM19
42	WHT/GRN	17	NO8	COM17
43	GRN/WHT	18	NO7	COM15
44	WHT/GRY	19	NO6	COM13
45	GRY/WHT	20	NO5	COM11
46	WHT/BRN	21	NO4	COM9
47	BRN/WHT	22	NO3	COM7
48	RED/GRN	23	NO2	COM5
49	GRN/RED	24	NO1	COM3
50	RED/BLU	25	NO0	COM1

Cable Leg J2				
200 LFH Pin #	Bare Wire Color	D-SUB Pin #	NI PXI-2570	NI PXI-2569
76	RED/ORG	1	COM25	CH51
77	ORG/RED	2	COM26	CH53
78	BLU/WHT	3	COM27	CH55
79	WHT/BLU	4	COM28	CH57
80	BRN/RED	5	COM29	CH59
81	RED/BRN	6	COM30	CH61
82	GRY/RED	7	COM31	CH63
83	RED/GRY	8	COM32	CH65
84	BLK/BLU	9	COM33	CH67
85	BLU/BLK	10	COM34	CH69
86	ORG/WHT	11	COM35	CH71
87	WHT/ORG	12	COM36	CH73
88	BLK/ORG	13	COM37	CH75
89	ORG/BLK	14	COM38	CH77
90	BLK/GRN	15	COM39	CH79
91	GRN/BLK	16	—	CH81
92	WHT/GRN	17	—	CH83
93	GRN/WHT	18	—	CH85
94	WHT/GRY	19	—	CH87
95	GRY/WHT	20	—	CH89
96	WHT/BRN	21	—	CH91
97	BRN/WHT	22	—	CH93
98	RED/GRN	23	—	CH95
99	GRN/RED	24	—	CH97
100	RED/BLU	25	—	CH99

Cable Leg J3				
200 LFH Pin #	Bare Wire Color	D-SUB Pin #	NI PXI-2570	NI PXI-2569
51	RED/ORG	1	COM0	CH1
52	ORG/RED	2	COM1	CH3
53	BLU/WHT	3	COM2	CH5
54	WHT/BLU	4	COM3	CH7
55	BRN/RED	5	COM4	CH9
56	RED/BRN	6	COM5	CH11
57	GRY/RED	7	COM6	CH13
58	RED/GRY	8	COM7	CH15
59	BLK/BLU	9	COM8	CH17
60	BLU/BLK	10	COM9	CH19
61	ORG/WHT	11	COM10	CH21
62	WHT/ORG	12	COM11	CH23
63	BLK/ORG	13	COM12	CH25
64	ORG/BLK	14	COM13	CH27
65	BLK/GRN	15	COM14	CH29
66	GRN/BLK	16	COM15	CH31
67	WHT/GRN	17	COM16	CH33
68	GRN/WHT	18	COM17	CH35
69	WHT/GRY	19	COM18	CH37
70	GRY/WHT	20	COM19	CH39
71	WHT/BRN	21	COM20	CH41
72	BRN/WHT	22	COM21	CH43
73	RED/GRN	23	COM22	CH45
74	GRN/RED	24	COM23	CH47
75	RED/BLU	25	COM24	CH49

Cable Leg J4				
200 LFH Pin #	Bare Wire Color	D-SUB Pin #	NI PXI-2570	NI PXI-2569
101	RED/ORG	1	—	COM98
102	ORG/RED	2	—	COM96
103	BLU/WHT	3	—	COM94
104	WHT/BLU	4	—	COM92
105	BRN/RED	5	—	COM90
106	RED/BRN	6	—	COM88
107	GRY/RED	7	—	COM86
108	RED/GRY	8	—	COM84
109	BLK/BLU	9	—	COM82
110	BLU/BLK	10	—	COM80
111	ORG/WHT	11	NC39	COM78
112	WHT/ORG	12	NC38	COM76
113	BLK/ORG	13	NC37	COM74
114	ORG/BLK	14	NC36	COM72
115	BLK/GRN	15	NC35	COM70
116	GRN/BLK	16	NC34	COM68
117	WHT/GRN	17	NC33	COM66
118	GRN/WHT	18	NC32	COM64
119	WHT/GRY	19	NC31	COM62
120	GRY/WHT	20	NC30	COM60
121	WHT/BRN	21	NC29	COM58
122	BRN/WHT	22	NC28	COM56
123	RED/GRN	23	NC27	COM54
124	GRN/RED	24	NC26	COM52
125	RED/BLU	25	NC25	COM50

Cable Leg J5				
200 LFH Pin #	Bare Wire Color	D-SUB Pin #	NI PXI-2570	NI PXI-2569
126	RED/ORG	1	NC24	COM48
127	ORG/RED	2	NC23	COM46
128	BLU/WHT	3	NC22	COM44
129	WHT/BLU	4	NC21	COM42
130	BRN/RED	5	NC20	COM40
131	RED/BRN	6	NC19	COM38
132	GRY/RED	7	NC18	COM36
133	RED/GRY	8	NC17	COM34
134	BLK/BLU	9	NC16	COM32
135	BLU/BLK	10	NC15	COM30
136	ORG/WHT	11	NC14	COM28
137	WHT/ORG	12	NC13	COM26
138	BLK/ORG	13	NC12	COM24
139	ORG/BLK	14	NC11	COM22
140	BLK/GRN	15	NC10	COM20
141	GRN/BLK	16	NC9	COM18
142	WHT/GRN	17	NC8	COM16
143	GRN/WHT	18	NC7	COM14
144	WHT/GRY	19	NC6	COM12
145	GRY/WHT	20	NC5	COM10
146	WHT/BRN	21	NC4	COM8
147	BRN/WHT	22	NC3	COM6
148	RED/GRN	23	NC2	COM4
149	GRN/RED	24	NC1	COM2
150	RED/BLU	25	NC0	COM0

Cable Leg J6				
200 LFH Pin #	Bare Wire Color	D-SUB Pin #	NI PXI-2570	NI PXI-2569
176	RED/ORG	1	—	CH50
177	ORG/RED	2	—	CH52
178	BLU/WHT	3	—	CH54
179	WHT/BLU	4	—	CH56
180	BRN/RED	5	—	CH58
181	RED/BRN	6	—	CH60
182	GRY/RED	7	—	CH62
183	RED/GRY	8	—	CH64
184	BLK/BLU	9	—	CH66
185	BLU/BLK	10	—	CH68
186	ORG/WHT	11	—	CH70
187	WHT/ORG	12	—	CH72
188	BLK/ORG	13	—	CH74
189	ORG/BLK	14	—	CH76
190	BLK/GRN	15	—	CH78
191	GRN/BLK	16	—	CH80
192	WHT/GRN	17	—	CH82
193	GRN/WHT	18	—	CH84
194	WHT/GRY	19	—	CH86
195	GRY/WHT	20	—	CH88
196	WHT/BRN	21	—	CH90
197	BRN/WHT	22	—	CH92
198	RED/GRN	23	—	CH94
199	GRN/RED	24	—	CH96
200	RED/BLU	25	—	CH98

Cable Leg J7				
200 LFH Pin #	Bare Wire Color	D-SUB Pin #	NI PXI-2570	NI PXI-2569
151	RED/ORG	1	—	CH0
152	ORG/RED	2	—	CH2
153	BLU/WHT	3	—	CH4
154	WHT/BLU	4	—	CH6
155	BRN/RED	5	—	CH8
156	RED/BRN	6	—	CH10
157	GRY/RED	7	—	CH12
158	RED/GRY	8	—	CH14
159	BLK/BLU	9	—	CH16
160	BLU/BLK	10	—	CH18
161	ORG/WHT	11	—	CH20
162	WHT/ORG	12	—	CH22
163	BLK/ORG	13	—	CH24
164	ORG/BLK	14	—	CH26
165	BLK/GRN	15	—	CH28
166	GRN/BLK	16	—	CH30
167	WHT/GRN	17	—	CH32
168	GRN/WHT	18	—	CH34
169	WHT/GRY	19	—	CH36
170	GRY/WHT	20	—	CH38
171	WHT/BRN	21	—	CH40
172	BRN/WHT	22	—	CH42
173	RED/GRN	23	—	CH44
174	GRN/RED	24	—	CH46
175	RED/BLU	25	—	CH48

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