

Cabling and Wiring

Terminating Line Interface Module Connections

The Cisco 6705 integrated access device backplane line interface module connectors are designed to connect with 50-wire (25-pair) male RJ-21 connectors. Figure 1-1 shows the location of the three line interface module connectors.

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Figure 1-1 Cisco 6705 Backplane Connectors

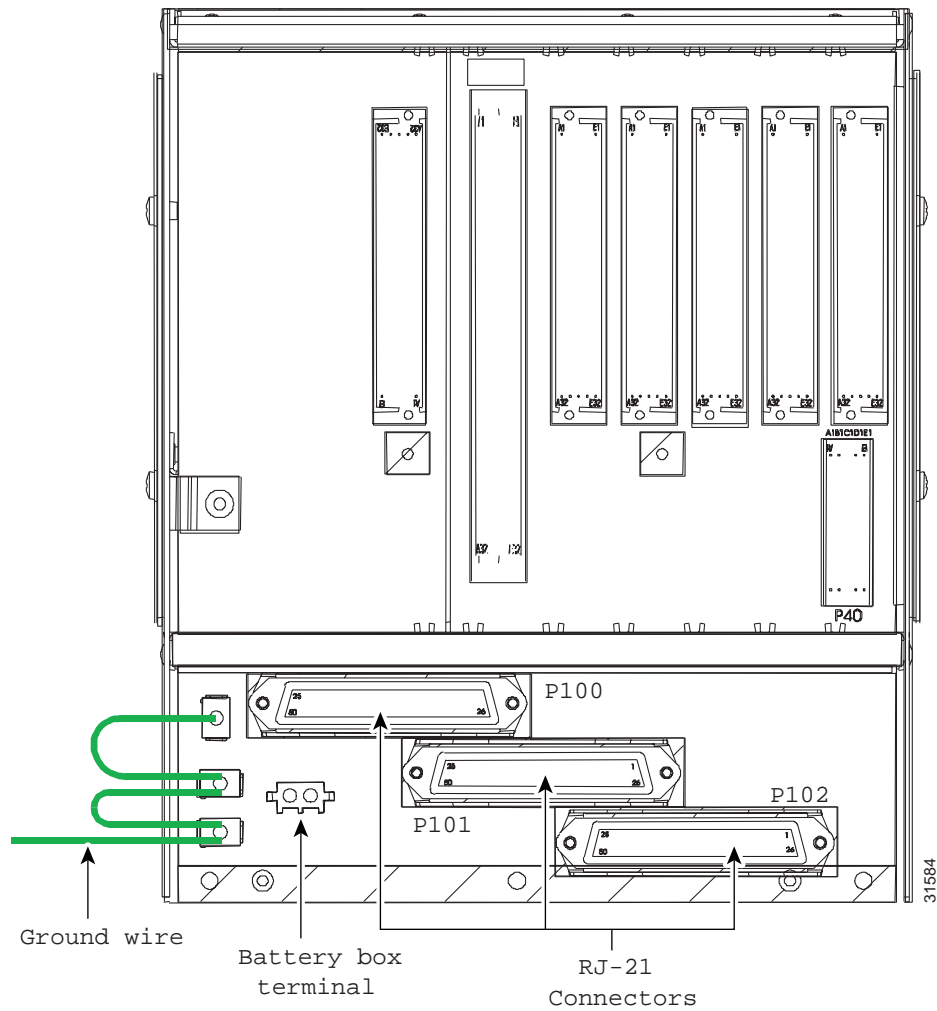


Figure 1-2 shows the line card (LC) pair assignments for the Cisco 6705 backplane line interface module connectors.

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Figure 1-2 Cisco 6705 Connector Pair Assignments

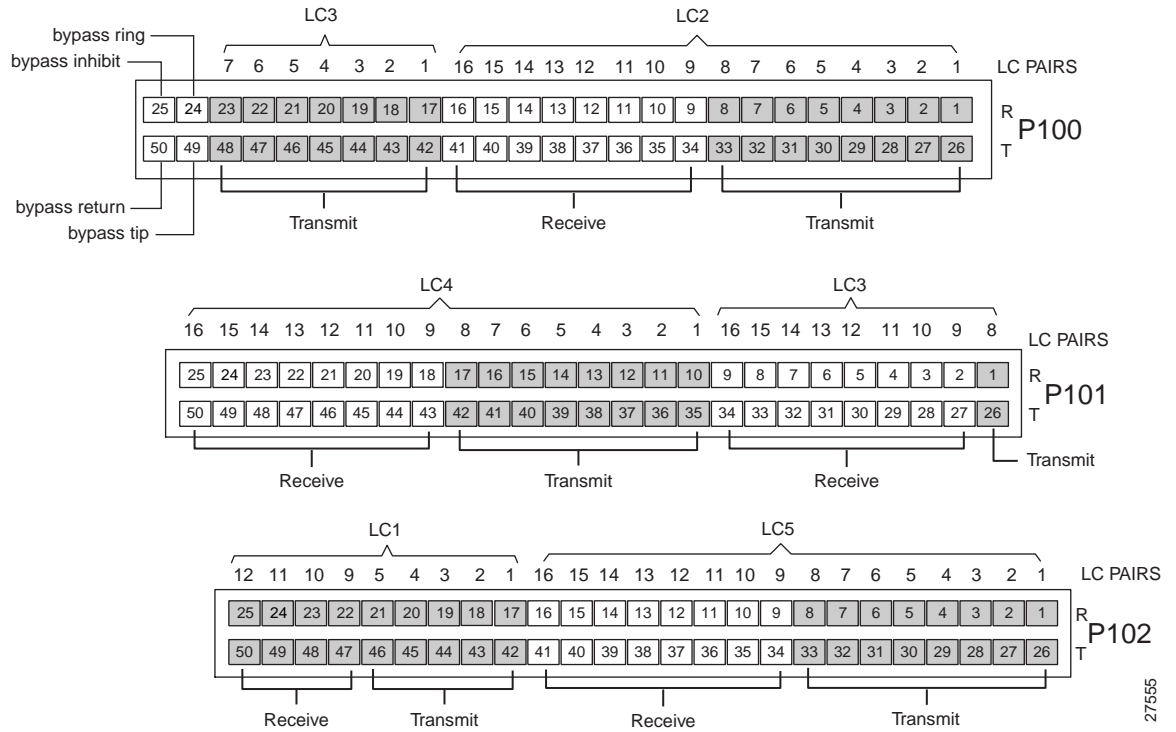


Table 1-1 Cisco 6705 Connector #1 (P100) Ring/Tip Post Mapping

Pin	Signal	Pin	Signal	2-Wire Cabling	4-Wire Cabling
1	LC2_RING(1)	26	LC2_TIP(1)	LC2_1	LC2_1 XMT A
2	LC2_RING(2)	27	LC2_TIP(2)	LC2_2	LC2_2 XMT A
3	LC2_RING(3)	28	LC2_TIP(3)	LC2_3	LC2_3 XMT A
4	LC2_RING(4)	29	LC2_TIP(4)	LC2_4	LC2_4 XMT A
5	LC2_RING(5)	30	LC2_TIP(5)	LC2_5	LC2_5 XMT A
6	LC2_RING(6)	31	LC2_TIP(6)	LC2_6	LC2_6 XMT A
7	LC2_RING(7)	32	LC2_TIP(7)	LC2_7	LC2_7 XMT A
8	LC2_RING(8)	33	LC2_TIP(8)	LC2_8	LC2_8 XMT A
9	LC2_RING(9)	34	LC2_TIP(9)	LC2_9	LC2_1 RCV B
10	LC2_RING(10)	35	LC2_TIP(10)	LC2_10	LC2_2 RCV B
11	LC2_RING(11)	36	LC2_TIP(11)	LC2_11	LC2_3 RCV B
12	LC2_RING(12)	37	LC2_TIP(12)	LC2_12	LC2_4 RCV B
13	LC2_RING(13)	38	LC2_TIP(13)	LC2_13	LC2_5 RCV B
14	LC2_RING(14)	39	LC2_TIP(14)	LC2_14	LC2_6 RCV B
15	LC2_RING(15)	40	LC2_TIP(15)	LC2_15	LC2_7 RCV B
16	LC2_RING(16)	41	LC2_TIP(16)	LC2_16	LC2_8 RCV B
17	LC3_RING(1)	42	LC3_TIP(1)	LC3_1	LC3_1 XMT A
18	LC3_RING(2)	43	LC3_TIP(2)	LC3_2	LC3_2 XMT A

ALPHA DRAFT - CISCO CONFIDENTIAL**Table 1-1 Cisco 6705 Connector #1 (P100) Ring/Tip Post Mapping (continued)**

Pin	Signal	Pin	Signal	2-Wire Cabling	4-Wire Cabling
19	LC3_RING(3)	44	LC3_TIP(3)	LC3_3	LC3_3 XMT A
20	LC3_RING(4)	45	LC3_TIP(4)	LC3_4	LC3_4 XMT A
21	LC3_RING(5)	46	LC3_TIP(5)	LC3_5	LC3_5 XMT A
22	LC3_RING(6)	47	LC3_TIP(6)	LC3_6	LC3_6 XMT A
23	LC3_RING(7)	48	LC3_TIP(7)	LC3_7	LC3_7 XMT A
24	Bypass Ring	49	Bypass Tip	No Connection	No Connection
25	Bypass Return	50	Bypass Inhibit	No Connection	No Connection

Table 1-2 Cisco 6705 Connector #2 (P101) Ring/Tip Post Mapping

Pin	Signal	Pin	Signal	2-Wire Cabling	4-Wire Cabling
1	LC3_RING(8)	26	LC3_TIP(8)	LC3_8	LC3_8 XMT A
2	LC3_RING(9)	27	LC3_TIP(9)	LC3_9	LC3_1 RCV B
3	LC3_RING(10)	28	LC3_TIP(10)	LC3_10	LC3_2 RCV B
4	LC3_RING(11)	29	LC3_TIP(11)	LC3_11	LC3_3 RCV B
5	LC3_RING(12)	30	LC3_TIP(12)	LC3_12	LC3_4 RCV B
6	LC3_RING(13)	31	LC3_TIP(13)	LC3_13	LC3_5 RCV B
7	LC3_RING(14)	32	LC3_TIP(14)	LC3_14	LC3_6 RCV B
8	LC3_RING(15)	33	LC3_TIP(15)	LC3_15	LC3_7 RCV B
9	LC3_RING(16)	34	LC3_TIP(16)	LC3_16	LC3_8 RCV B
10	LC4_RING(1)	35	LC4_TIP(1)	LC4_1	LC4_1 XMT A
11	LC4_RING(2)	36	LC4_TIP(2)	LC4_2	LC4_2 XMT A
12	LC4_RING(3)	37	LC4_TIP(3)	LC4_3	LC4_3 XMT A
13	LC4_RING(4)	38	LC4_TIP(4)	LC4_4	LC4_4 XMT A
14	LC4_RING(5)	39	LC4_TIP(5)	LC4_5	LC4_5 XMT A
15	LC4_RING(6)	40	LC4_TIP(6)	LC4_6	LC4_6 XMT A
16	LC4_RING(7)	41	LC4_TIP(7)	LC4_7	LC4_7 XMT A
17	LC4_RING(8)	42	LC4_TIP(8)	LC4_8	LC4_8 XMT A
18	LC4_RING(9)	43	LC4_TIP(9)	LC4_9	LC4_1 RCV B
19	LC4_RING(10)	44	LC4_TIP(10)	LC4_10	LC4_2 RCV B
20	LC4_RING(11)	45	LC4_TIP(11)	LC4_11	LC4_3 RCV B
21	LC4_RING(12)	46	LC4_TIP(12)	LC4_12	LC4_4 RCV B
22	LC4_RING(13)	47	LC4_TIP(13)	LC4_13	LC4_5 RCV B
23	LC4_RING(14)	48	LC4_TIP(14)	LC4_14	LC4_6 RCV B
24	LC4_RING(15)	49	LC4_TIP(15)	LC4_15	LC4_7 RCV B
25	LC4_RING(16)	50	LC4_TIP(16)	LC4_16	LC4_8 RCV B

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Table 1-3 Cisco 6705 Connector #3 (P102) Ring/Tip Post Mapping

Pin	Signal	Pin	Signal	2-Wire Cabling	4-Wire Cabling
1	LC5_RING(1)	26	LC5_TIP(1)	LC5_1	LC5_1 XMT A
2	LC5_RING(2)	27	LC5_TIP(2)	LC5_2	LC5_2 XMT A
3	LC5_RING(3)	28	LC5_TIP(3)	LC5_3	LC5_3 XMT A
4	LC5_RING(4)	29	LC5_TIP(4)	LC5_4	LC5_4 XMT A
5	LC5_RING(5)	30	LC5_TIP(5)	LC5_5	LC5_5 XMT A
6	LC5_RING(6)	31	LC5_TIP(6)	LC5_6	LC5_6 XMT A
7	LC5_RING(7)	32	LC5_TIP(7)	LC5_7	LC5_7 XMT A
8	LC5_RING(8)	33	LC5_TIP(8)	LC5_8	LC5_8 XMT A
9	LC5_RING(9)	34	LC5_TIP(9)	LC5_9	LC5_1 RCV B
10	LC5_RING(10)	35	LC5_TIP(10)	LC5_10	LC5_2 RCV B
11	LC5_RING(11)	36	LC5_TIP(11)	LC5_11	LC5_3 RCV B
12	LC5_RING(12)	37	LC5_TIP(12)	LC5_12	LC5_4 RCV B
13	LC5_RING(13)	38	LC5_TIP(13)	LC5_13	LC5_5 RCV B
14	LC5_RING(14)	39	LC5_TIP(14)	LC5_14	LC5_6 RCV B
15	LC5_RING(15)	40	LC5_TIP(15)	LC5_15	LC5_7 RCV B
16	LC5_RING(16)	41	LC5_TIP(16)	LC5_16	LC5_8 RCV B
17	LC1_RING(1)	42	LC1_TIP(1)	LC1_1	LC1_1 XMT A
18	LC1_RING(2)	43	LC1_TIP(2)	LC1_2	LC1_2 XMT A
19	LC1_RING(3)	44	LC1_TIP(3)	LC1_3	LC1_3 XMT A
20	LC1_RING(4)	45	LC1_TIP(4)	LC1_4	LC1_4 XMT A
21	LC1_RING(5)	46	LC1_TIP(5)	LC1_5	LC1_5 XMT A
22	LC1_RING(9)	47	LC1_TIP(9)	LC1_9	LC1_1 RCV B
23	LC1_RING(10)	48	LC1_TIP(10)	LC1_10	LC1_2 RCV B
24	LC1_RING(11)	49	LC1_TIP(11)	LC1_11	LC1_3 RCV B
25	LC1_RING(12)	50	LC1_TIP(12)	LC1_12	LC1_4 RCV B

T1-2-V35 Cable

The T1-2-V35 card ships with a 5-foot V.35 cable that provides connectivity to Cisco 1000 and Cisco 4500 series routers. You can order a spare using product number CAB-67-011=.

Table 1-4 T1-2-V35 Cable Pinouts

Signal No.	From DB-25	To V.35	Signal Name	Pair
R	16	P1-1	RXDP	1
T	3	P1-2	RXDN	

*ALPHA DRAFT - CISCO CONFIDENTIAL***Table 1-4 T1-2-V35 Cable Pinouts**

Signal No.	From DB-25	To V.35	Signal Name	Pair
Y	12	P1-3	TXCCP	2
AA	15	P1-4	TXCCN	
V	9	P1-5	RXCP	3
X	17	P1-6	RXCN	
S	2	P1-7	TXDN	4
P	14	P1-8	TXDP	
W	24	P1-9	TXCN	5
U	11	P1-10	TXCP	
D	5	P1-11	CTS	6
C	4	P1-12	RTS	
K	18	P1-13	LL	7
E	6	P1-14	DSR	
H	20	P1-15	DTR	8
F	8	P1-16	DCD	
No Connect	21	P1-17	RL	9
No Connect	25	P1-18	TM	
B	7	P1-19	SIG GND	10
A	1	P1-20	FRM GND	
–	–	P1-21	–	11
–	–	P1-22	–	
–	–	P1-23	–	12
–	–	P1-24	–	
–	–	P1-25	–	13
–	–	P1-26	–	

DSX3/CHNL and STSX1/CHNL Cables

The STSX1/CHNL and DSX3/CHNL line interface modules each ship with two 18-inch coaxial SMB female to coaxial BNC male cables. Connect the cables to the transmit (Tx) and receive (Rx) coaxial connectors terminals of the line interface module. You can order a spare using product number CAB-SMB-BNC=. Cisco recommends 75-ohm telecommunications cables for these connections (RG 59/U Type, 20AWG [solid]).

OC3c-UNI Cables

The OC3c-UNI line interface module has a female duplex SC connector on the faceplate. You must supply a single-mode intermediate reach fiber cable to connect to the connector.