

*Port 3 is the bottom fiber cable port on both the two-port and the six-port Expansion Cartridge in slot 2. Port 9 is the bottom fiber cable port located on the left most expansion card in slot 1.*

*B1 and B2 directory numbers reflect the default numbering scheme.*

*If you expand your system after initial installation and programming, there may appear to be gaps in your B1 DN numbering. This is because the system has already assigned DN numbers to B2 channels. You can correct these gaps by performing Startup programming and resetting the system memory, or by changing the individual DNs. See **Change DNs** under **System Programming**.*



**Startup programming erases the system memory.**

### ICS telephone wiring chart

Pin	Wire color	Port	Service	Devices (ICS)	Default DN
26	White-Blue	101	T	1	
1	Blue-White	101	R	1	21/221/2221
27	White-Orange	102	T	2	
2	Orange-White	102	R	2	22/222/2222
28	White-Green	103	T	3	
3	Green-White	103	R	3	23/223/2223
29	White-Brown	104	T	4	
4	Brown-White	104	R	4	24/224/2224
30	White-Slate	105	T	5	
5	Slate-White	105	R	5	25/225/2225
31	Red-Blue	106	T	6	
6	Blue-Red	106	R	6	26/226/2226
32	Red-Orange	107	T	7	
7	Orange-Red	107	R	7	27/227/2227
33	Red-Green	108	T	8	
8	Green-Red	108	R	8	28/228/2228
34	Red-Brown	109	T	9	
9	Brown-Red	109	R	9	29/229/2229

Pin	Wire color	Port	Service	Devices (ICS)	Default DN
35	Red-Slate	110	T	10	
10	Slate-Red	110	R	10	30/230/2230
36	Black-Blue	111	T	11	
11	Blue-Black	111	R	11	31/231/2231
37	Black-Orange	112	T	12	
12	Orange-Black	112	R	12	32/232/2232
38	Black-Green	113	T	13	
13	Green-Black	113	R	13	33/233/2233
39	Black-Brown	114	T	14	
14	Brown-Black	114	R	14	34/234/2234
40	Black-Slate	115	T	15	
15	Slate-Black	115	R	15	35/235/2235
41	Yellow-Blue	116	T	16	
16	Blue-Yellow	116	R	16	36/236/2236
42	Yellow-Orange	117	T	17	
17	Orange-Yellow	117	R	17	37/237/2237
43	Yellow-Green	118	T	18	
18	Green-Yellow	118	R	18	38/238/2238
44	Yellow-Brown	119	T	19	
19	Brown-Yellow	119	R	19	39/239/2239
45	Yellow-Slate	120	T	20	
20	Slate-Yellow	120	R	20	40/240/2240
46	Violet-Blue	121	T	21	
21	Blue-Violet	121	R	21	41/241/2241
47	Violet-Orange	122	T	22	
22	Orange-Violet	122	R	22	42/242/2242
48	Violet-Green	123	T	23	
23	Green-Violet	123	R	23	43/243/2243
49	Violet-Brown	124	T	24	
24	Brown-Violet	124	R	24	44/244/2244
50	Violet-Slate	----	----	no connection	----
25	Slate-Violet	----	----	no connection	----

T and R represent station connections and should not be confused with Tip and Ring on external lines. Station connections are non-polarized.

## ICS telephone and auxiliary equipment wiring chart

Pin	Wire color	Port	Service	Telephones (ICS)	Default DN
26	White-Blue	125	T	25	
1	Blue-White	125	R	25	45/245/2245
27	White-Orange	126	T	26	
2	Orange-White	126	R	26	46/246/2246
28	White-Green	127	T	27	
3	Green-White	127	R	27	47/247/2247
29	White-Brown	128	T	28	
4	Brown-White	128	R	28	48/248/2248
30	White-Slate	129	T	29	
5	Slate-White	129	R	29	49/249/2249
31	Red-Blue	130	T	30	
6	Blue-Red	130	R	30	50/250/2250
32	Red-Orange	131	T	31	
7	Orange-Red	131	R	31	51/251/2251
33	Red-Green	132	T	32	
8	Green-Red	132	R	32	52/252/2252
34	Red-Brown	----	----	no connection	
9	Brown-Red	----	----	no connection	
35	Red-Slate	----	----	no connection	
10	Slate-Red	----	----	no connection	
36	Black-Blue	----	----	no connection	
11	Blue-Black	----	----	no connection	
37	Black-Orange	----	----	no connection	
12	Orange-Black	----	----	no connection	
38	Black-Green	----	----	no connection	
13	Green-Black	----	----	no connection	
39	Black-Brown	----	----	no connection	
14	Brown-Black	----	----	no connection	
40	Black-Slate	----	T	Page	← 600 Ohm Output
15	Slate-Black	----	R	Page	
41	Yellow-Blue	----	Make	External page	
16	Blue-Yellow	----	Common	External page	
42	Yellow-Orange	----	T	Music	
17	Orange-Yellow	----	R	Music	
43	Yellow-Green	----	----	reserved	
18	Green-Yellow	----	----	reserved	
44	Yellow-Brown	----	Make	Auxiliary ringer - 1	
19	Brown-Yellow	----	Common	Auxiliary ringer - 1	
45	Yellow-Slate	----	----	reserved	
20	Slate-Yellow	----	----	reserved	
46	Violet-Blue	----	----	no connection	

Pin	Wire color	Port	Service	Telephones (ICS)	Default DN
21	Blue-Violet	----	----	no connection	
47	Violet-Orange	----	----	reserved	
22	Orange-Violet	----	----	reserved	
48	Violet-Green	----	----	reserved	
23	Green-Violet	----	----	reserved	
49	Violet-Brown	----	----	reserved	
24	Brown-Violet	----	----	reserved	
50	Violet-Slate	----	----	reserved	
25	Slate-Violet	----	----	reserved	

T and R represent station connections and should not be confused with Tip and Ring on external lines. Station connections are non-polarized.

### ICS external loop start lines wiring

Pin	Wire color	Port	Service	Line
26	White-Blue	201	T	1
1	Blue-White	201	R	1
27	White-Orange	202	T	2
2	Orange-White	202	R	2
28	White-Green	----	----	----
3	Green-White	----	----	----
29	White-Brown	----	----	----
4	Brown-White	----	----	----
30	White-Slate	203	T	3
5	Slate-White	203	R	3
31	Red-Blue	204	T	4
6	Blue-Red	204	R	4
32	Red-Orange	----	----	----
7	Orange-Red	----	----	----
33	Red-Green	----	----	----
8	Green-Red	----	----	----
34	Red-Brown	225	T	25
9	Brown-Red	225	R	25
35	Red-Slate	226	T	26
10	Slate-Red	226	R	26
36	Black-Blue	----	----	----
11	Blue-Black	----	----	----
37	Black-Orange	----	----	----
12	Orange-Black	----	----	----
38	Black-Green	227	T	27
13	Green-Black	227	R	27
39	Black-Brown	228	T	28
14	Brown-Black	228	R	28

Pin	Wire color	Port	Service	Line
40	Black-Slate	----	----	----
15	Slate-Black	----	----	----
41	Yellow-Blue	----	----	----
16	Blue-Yellow	----	----	----
42	Yellow-Orange	----	----	----
17	Orange-Yellow	----	----	----
43	Yellow-Green	----	T	ET1
18	Green-Yellow	----	R	ET1
44	Yellow-Brown	----	T	ET2
19	Brown-Yellow	----	R	ET2
45	Yellow-Slate	----	----	----
20	Slate-Yellow	----	----	----
46	Violet-Blue	----	----	----
21	Blue-Violet	----	----	----
47	Violet-Orange	----	----	----
22	Orange-Violet	----	----	----
48	Violet-Green	----	----	----
23	Green-Violet	----	----	----
49	Violet-Brown	----	----	----
24	Brown-Violet	----	----	----
50	Violet-Slate	----	----	----
25	Slate-Violet	----	----	----

For an explanation of port numbering, see *Port numbering on the wiring charts* on page 195.

## BRI Wiring charts

A BRI Card in Slot 4 uses loops 201 through 204. A BRI card in Slot 3 uses loops 225 through 228. Because a BRI-U2 Card has only two loops, it only uses the first two loop numbers (201-202 and 225-226) when it occupies an ICS slot.

The loops appearing on a BRI card may be automatically assigned lines, or assigned one or more ISDN DNs in **Hardware**. If the loop is configured as T or NT, lines are automatically assigned. If the loop is configured as S or LT, you can assign one or more ISDN DNs to the loop.

The emergency telephone connections (ET2 and ET1) cannot be used if a BRI card is installed in Slot 3 or Slot 4, respectively.