Communication System Server (CSS)

EXCEL 5000 ®
S Y S T E M

BEFORE INSTALLATION

1. Unpack CSS housing (Fig. 1) with CPU and Power Supply. Check equipment and report any damage to Honeywell representative.

2. Determine CSS housing location. Verify ventilation slots are not blocked to ensure free air movement inside housing. Ambient operating limits are 32° to 122°F (0° to 50°C), 95% rh maximum. Locate CSS so that PC Bus Interface wire run does not exceed 50 ft. (15m) and CSS is within 6 ft. (1.8m) of 3-prong line voltage outlet.

3. Unpack CSS Communication Interface Board(s) (CIBs). Check equipment and report any damage to Honeywell representative. Verify correct board(s) are available per job drawings:
   — CSS-CIB-02 For hard wire S-Bus and C-Bus connections
   — CSS-CIB-03 For modem connections to remote Excel 600/500/100/80 Controllers or Q648 Interface (Excel Classic)

4. Unpack Interaction Program Debugger Board (SPIDER) CSS-IPD-01, if included.

5. Unpack cables. Verify correct cables are available for installation:
   — 14507083-001 CSS (15-pin socket)-to-PC Serial Port (9-pin socket)
   — 14507084-001 CSS (15-pin socket)-to-PC Bus Interface (9-pin socket), or
   14507085-001 CSS (15-pin socket)-to-PC Bus Interface (15-pin plug)
   — 14507195-001 CSS (15-pin plug)-to-Modem (25-pin plug) for dialup installations (one per modem)
   — 14506890-001 CSS (15-pin plug)-to-C-Bus/S-Bus (4-screw terminal strip) for hardware local bus installations (one per local bus)

⚠ CAUTION
All CSS boards must have jumpers set correctly before applying power to the CSS.

NOTE: If CSS is to be fully commissioned, see 74-1381 Excel Building Supervisor-Integrated Bus Interface and Communication System Server Checkout & Test for jumper settings, startup, and checkout information.

For systems integrated with a UL Listed fire system:
6. Unpack 14006090-200101 Isolator Kit Assembly. Check equipment and report any damage to Honeywell representative.
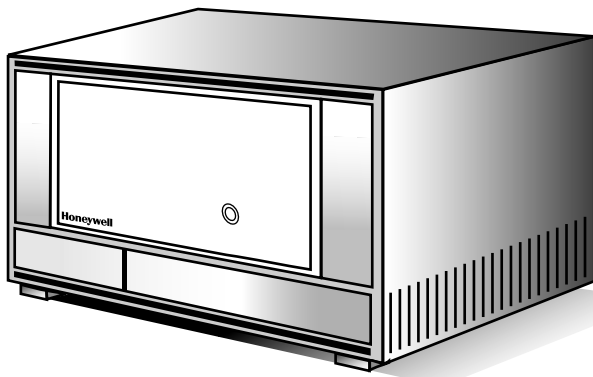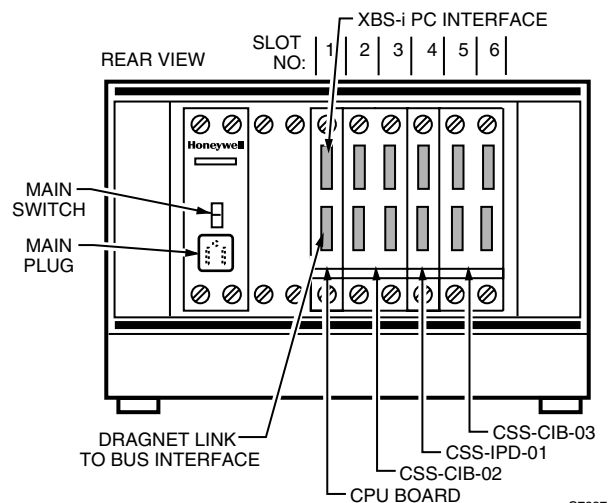
Fig. 1. CSS-SH-02 Housing and CIB Locations.

INSTALLATION

Assembly

❶ Verify Power Supply (has main power switch and line cord receptacle) and CPU (has two 15-pin D-shell connectors and is in Slot 1) are installed in housing (Fig. 1).

❷ Verify power switch is in OFF (○) position (and power cable is NOT connected).

⚠ CAUTION

Do NOT apply line power to CSS until installation is complete.

❸ Remove screws from gray front panels and remove cover from housing.

❹ Install CIBs according to configuration (A,B, or C) specified by job drawings. Figure 2 shows correct slot locations for boards. Insert boards into appropriate slots, making sure they fit properly in upper and lower guide rails.

— Configuration A:
One CSS-CIB-02 board for up to four local buses, or
One CSS-CIB-03 board for up to four remote buses

— Configuration B:
One CSS-CIB-02 board and a single CSS-CIB-03 board for both local and remote C- or S-Buses

— Configuration C:
Two CSS-CIB-02 boards for up to eight local buses, or
Two CSS-CIB-03 boards for up to eight remote buses (83 remote sites maximum)

NOTE: Before the CSS is powered up, set all board jumpers as specified in 74-1381 Excel Building Supervisor-Integrated Bus Interface and Communication System Server Checkout & Test.

❺ Install CSS-IPD-01 SPIDER board, if included. Always mount CSS-IPD-01 in Slot 4 of housing (Fig. 2).

❻ Use four screws (provided) to secure each board.

❼ Reassemble housing.

CSS Wiring

❶ Verify CSS main switch is in OFF (○) position. Then connect power cord from CSS main plug to power source.

❷ Connect CSS to PC/Bus Interface as follows:
a. For non-UL listed configuration *without* Isolator Kit Assembly:
— Connect 14507083-001 CSS-to-PC cable (Fig. 7) from upper 15-pin connector on CSS CPU Board to COM1 (or COM2) serial port on PC (Fig. 3 and 6).
— Connect 14507084-001 or 14507085-001 (Fig. 9) CSS-to-Bus Interface cable from lower 15-pin connector on CPU Board to the appropriate Bus Interface port (Fig. 3 through 6 and job drawings).
b. For UL listed configuration *with* Isolator Kit Assembly, connect cables from Isolator Kit Assembly per Figure 12.

❸ Connect Excel S-Bus(es) or C-Bus(es) to the appropriate connectors on the CSS-CIB-02 Board (Fig. 3 through 6 and job drawings). Use optional 14506890-001 15-Pin D-shell to screw terminal converter(s).
NOTES:
1. Make certain the phasing (Wire A/Wire B) of the S-Bus, and the C+/C- of the C-Bus is correct and that the shield (if present) is terminated as shown in Fig. 3 through 6.
2. Use good practice in cable arrangement and strain-relief, especially for S-Bus and C-Bus cables since they may leave a conduit box (if present).

❹ Secure any other unused cables (e.g., CSS-IPD-01 cables) and parts to CSS for later use.

❺ Connect modems to CSS-CIB-03 board(s) using 14507195-001 cable (Fig. 10).

❻ Leave CSS power OFF (○) until CSS start-up.
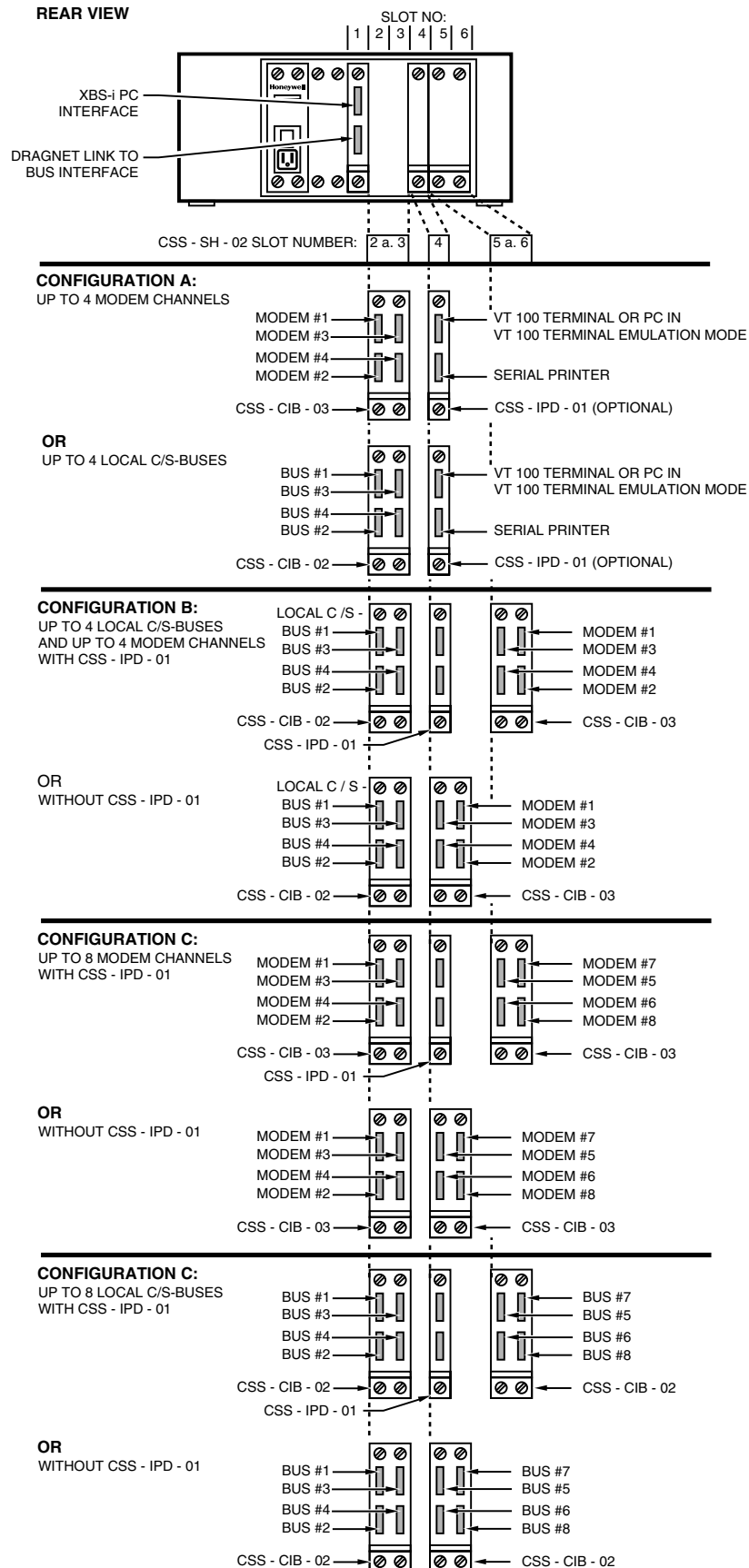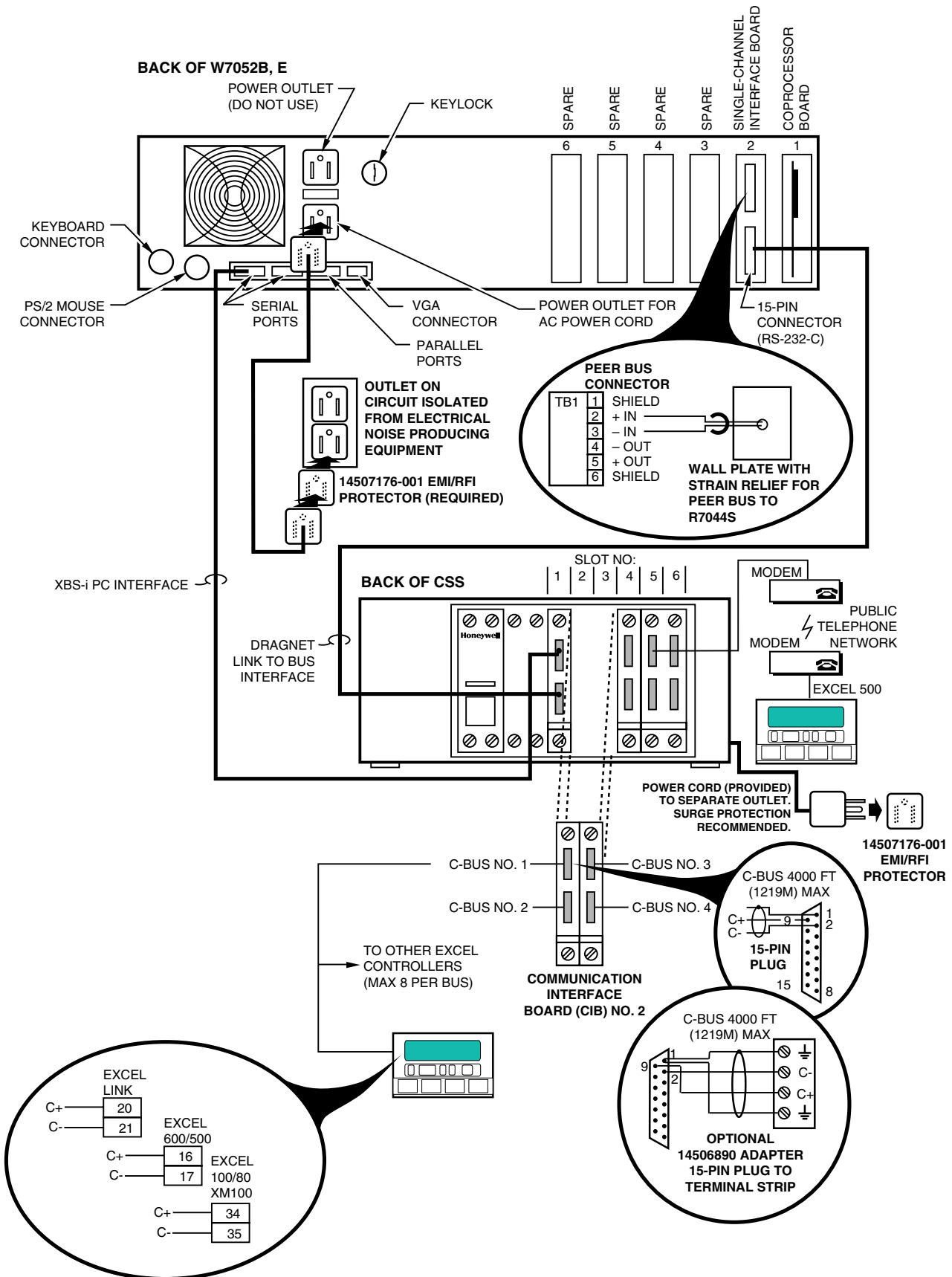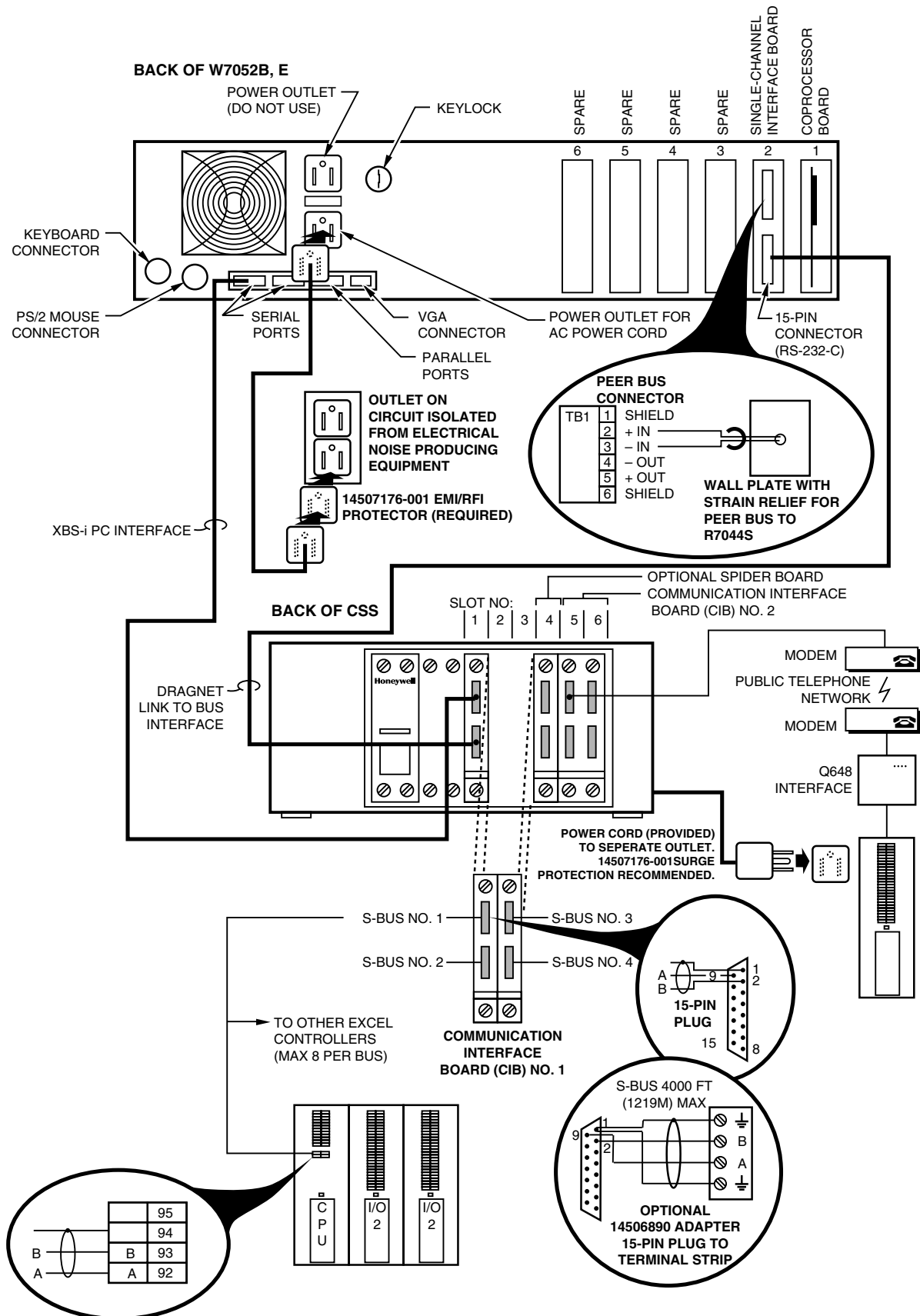
Fig. 2. Configuration Option for the CSS-SH-02.

C7657-1

Fig. 3. CSS Connection to W7052B/E and Excel 600/500/100/80 Controller.

BACK OF W7052B, E

POWER OUTLET (DO NOT USE)

KEYLOCK

SPARE

SPARE

SPARE

SPARE

SINGLE-CHANNEL INTERFACE BOARD

COPROCESSOR BOARD

6 5 4 3 2 1

KEYBOARD CONNECTOR

PS/2 MOUSE CONNECTOR

SERIAL PORTS

VGA CONNECTOR

POWER OUTLET FOR AC POWER CORD

15-PIN CONNECTOR (RS-232-C)

PARALLEL PORTS

PEER BUS CONNECTOR

TB1 1 SHIELD
     2 + IN
     3 − IN
     4 − OUT
     5 + OUT
     6 SHIELD

WALL PLATE WITH STRAIN RELIEF FOR PEER BUS TO R7044S

OUTLET ON CIRCUIT ISOLATED FROM ELECTRICAL NOISE PRODUCING EQUIPMENT

14507176-001 EMI/RFI PROTECTOR (REQUIRED)

XBS-i PC INTERFACE

OPTIONAL SPIDER BOARD
COMMUNICATION INTERFACE BOARD (CIB) NO. 2

SLOT NO: 1 2 3 4 5 6

BACK OF CSS

MODEM

PUBLIC TELEPHONE NETWORK

MODEM

Honeywell

DRAGNET LINK TO BUS INTERFACE

Q648 INTERFACE

POWER CORD (PROVIDED) TO SEPERATE OUTLET. 14507176-001SURGE PROTECTION RECOMMENDED.

S-BUS NO. 1

S-BUS NO. 3

S-BUS NO. 2

S-BUS NO. 4

A
B
9
1
2

15-PIN PLUG

15 8

TO OTHER EXCEL CONTROLLERS (MAX 8 PER BUS)

COMMUNICATION INTERFACE BOARD (CIB) NO. 1

S-BUS 4000 FT (1219M) MAX

9
1
2

B
A

OPTIONAL 14506890 ADAPTER 15-PIN PLUG TO TERMINAL STRIP

C
P
U

I/O
2

I/O
2

95
94
B 93
A 92

B
A

C7622-1

Fig. 4. CSS Connection to W7052B/E and Excel Classic Controller.
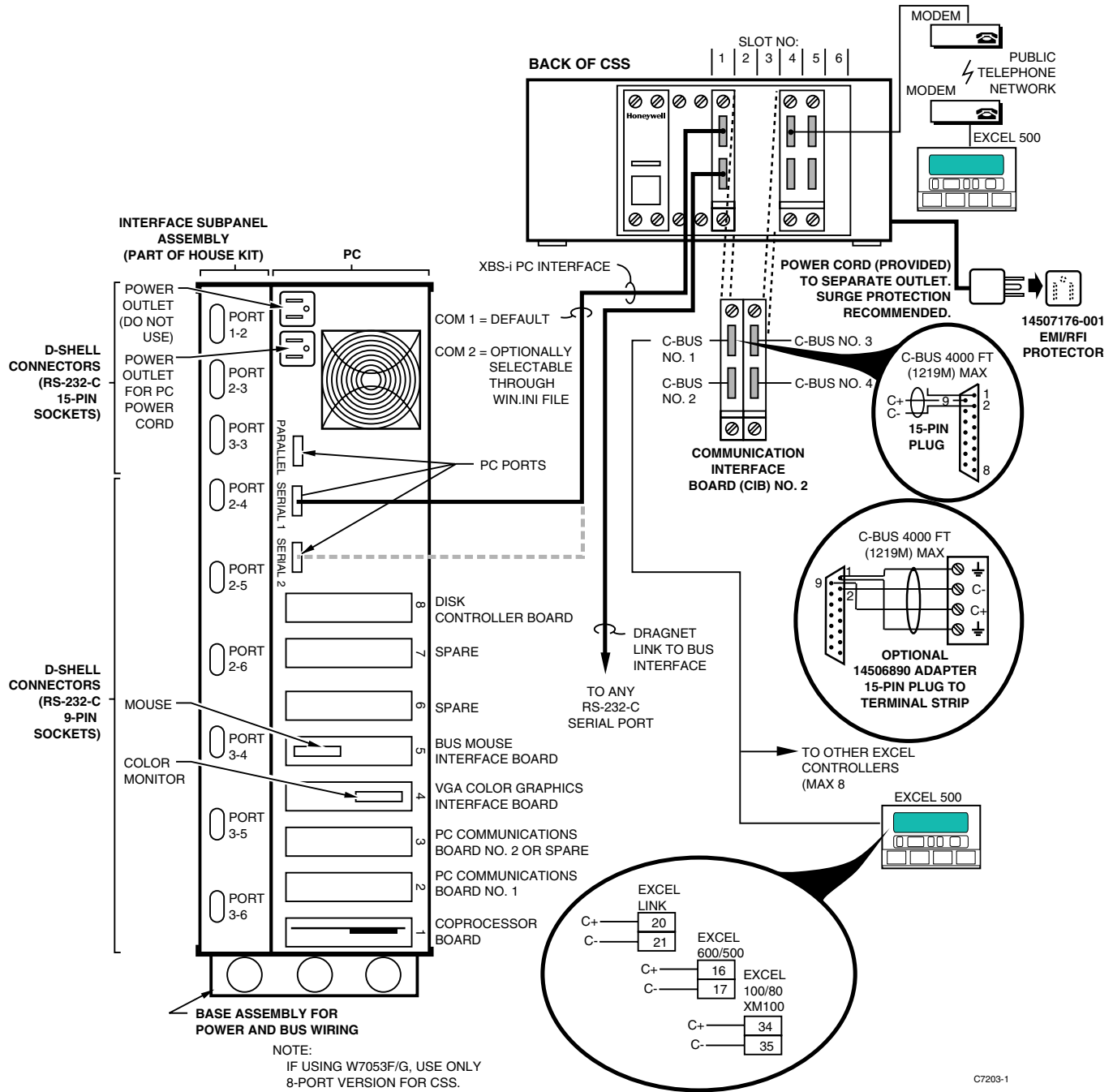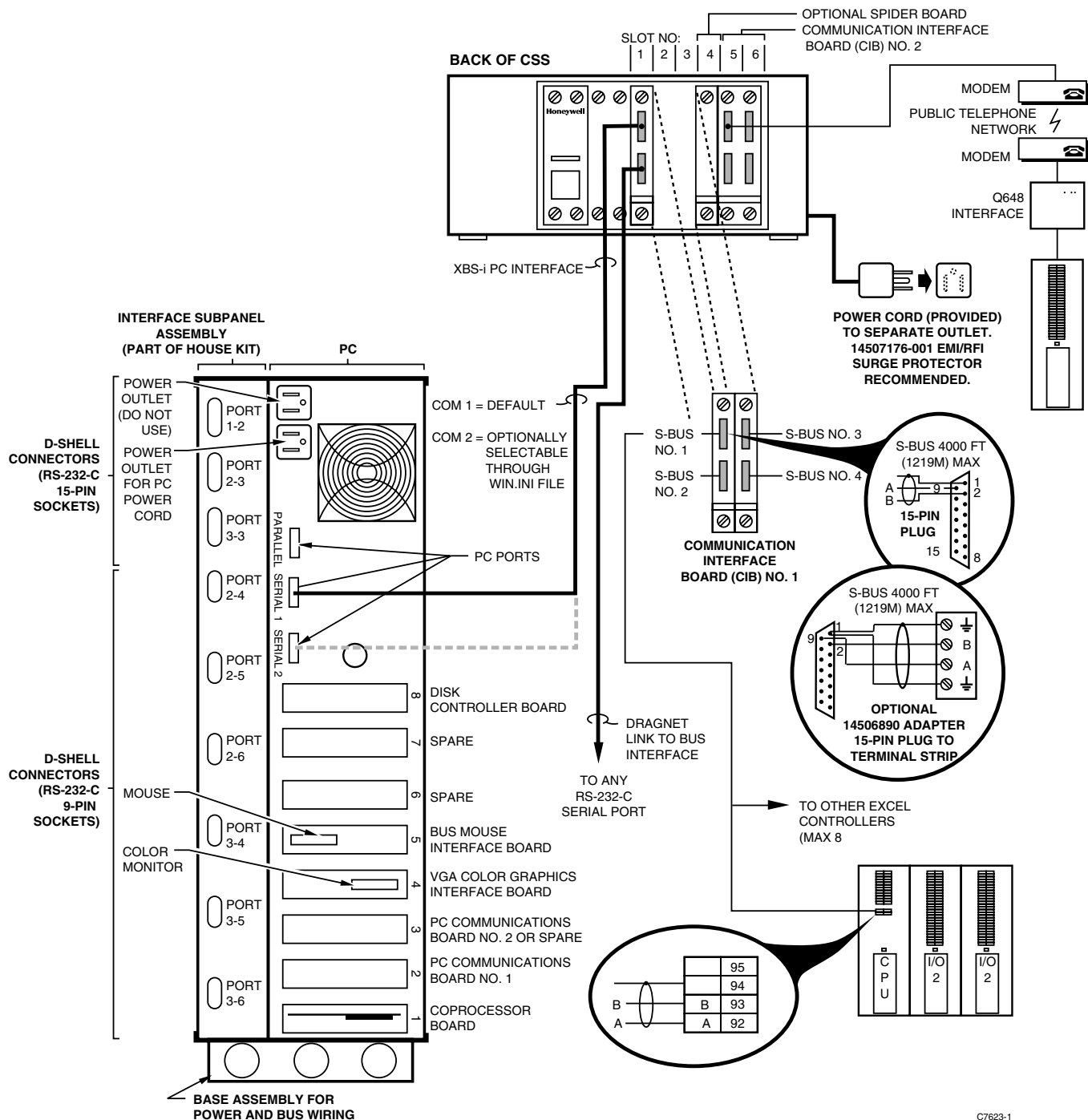
Fig. 5. CSS Connection to W7053D-E and Excel 600/500/100/80 Controller.

Fig. 6. CSS Connection to W7053D-E and Excel Classic Controller.
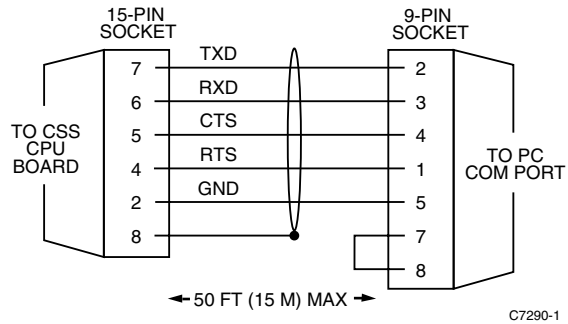
Cable Pinouts

Fig. 7. CSS CPU to XBS Connection: 14507083-001 — 25 ft. (7.5 m).
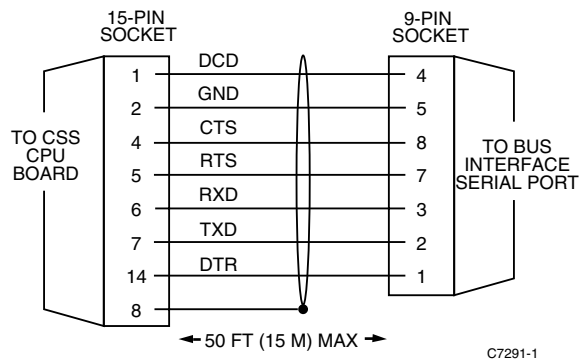

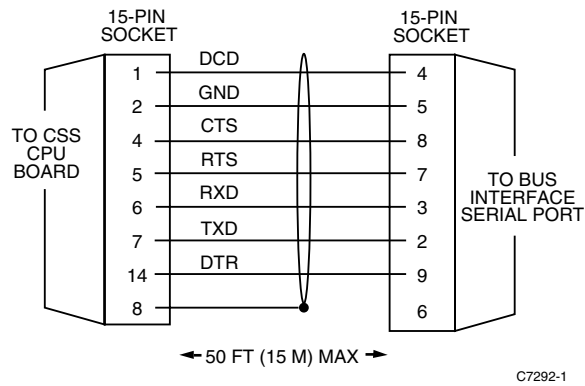**Fig. 8. CSS CPU to XBS PC Bus Interface 9-Pin Connection: 14507084-001 — 25 ft. (7.5 m).**

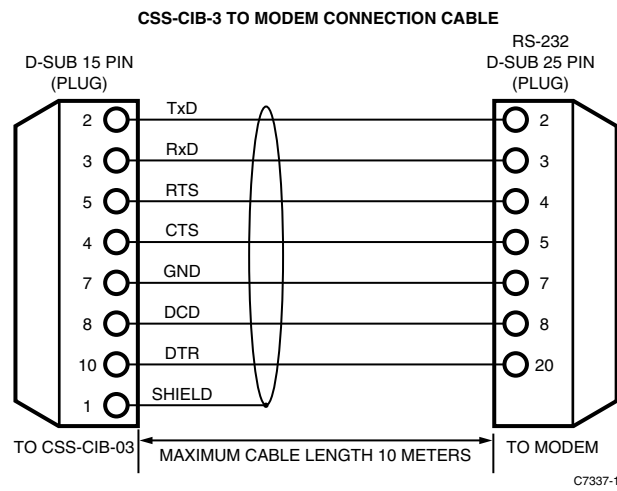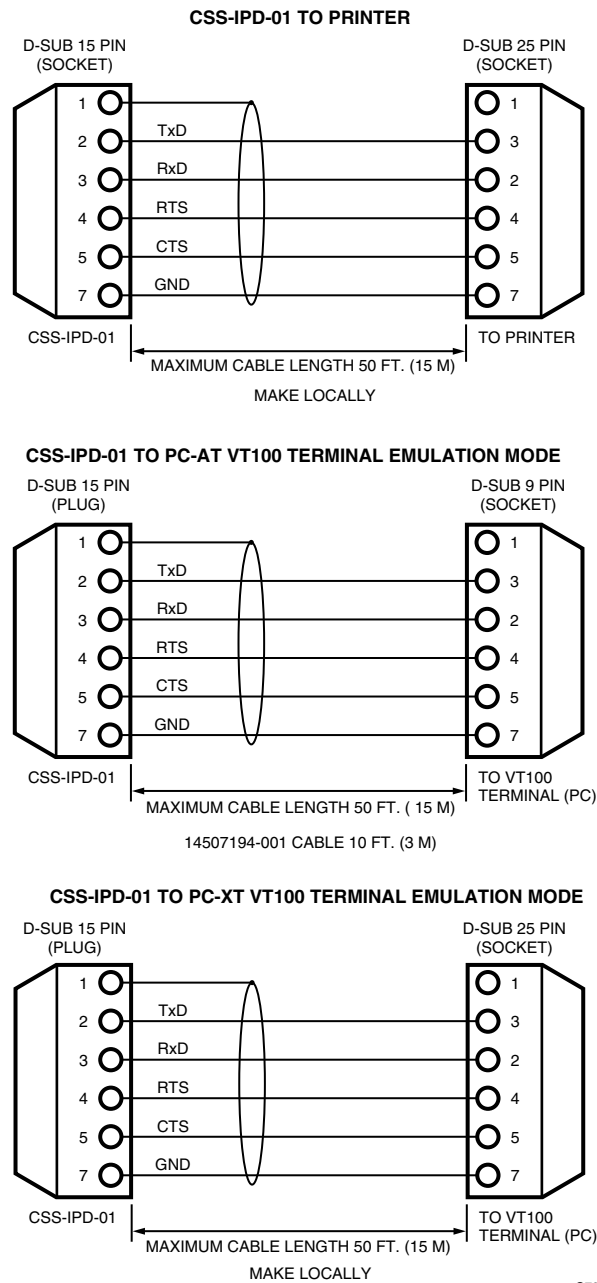**Fig. 9. CSS CPU to XBS PC Bus Interface 15-Pin Connection: 14507085-001 — 25 ft. (7.5 m).**

Fig. 10. 14507195-001 Cable — 10 ft. (3 m).

CSS-IPD-01 TO PRINTER

CSS-IPD-01 TO PC-AT VT100 TERMINAL EMULATION MODE

CSS-IPD-01 TO PC-XT VT100 TERMINAL EMULATION MODE

C7944

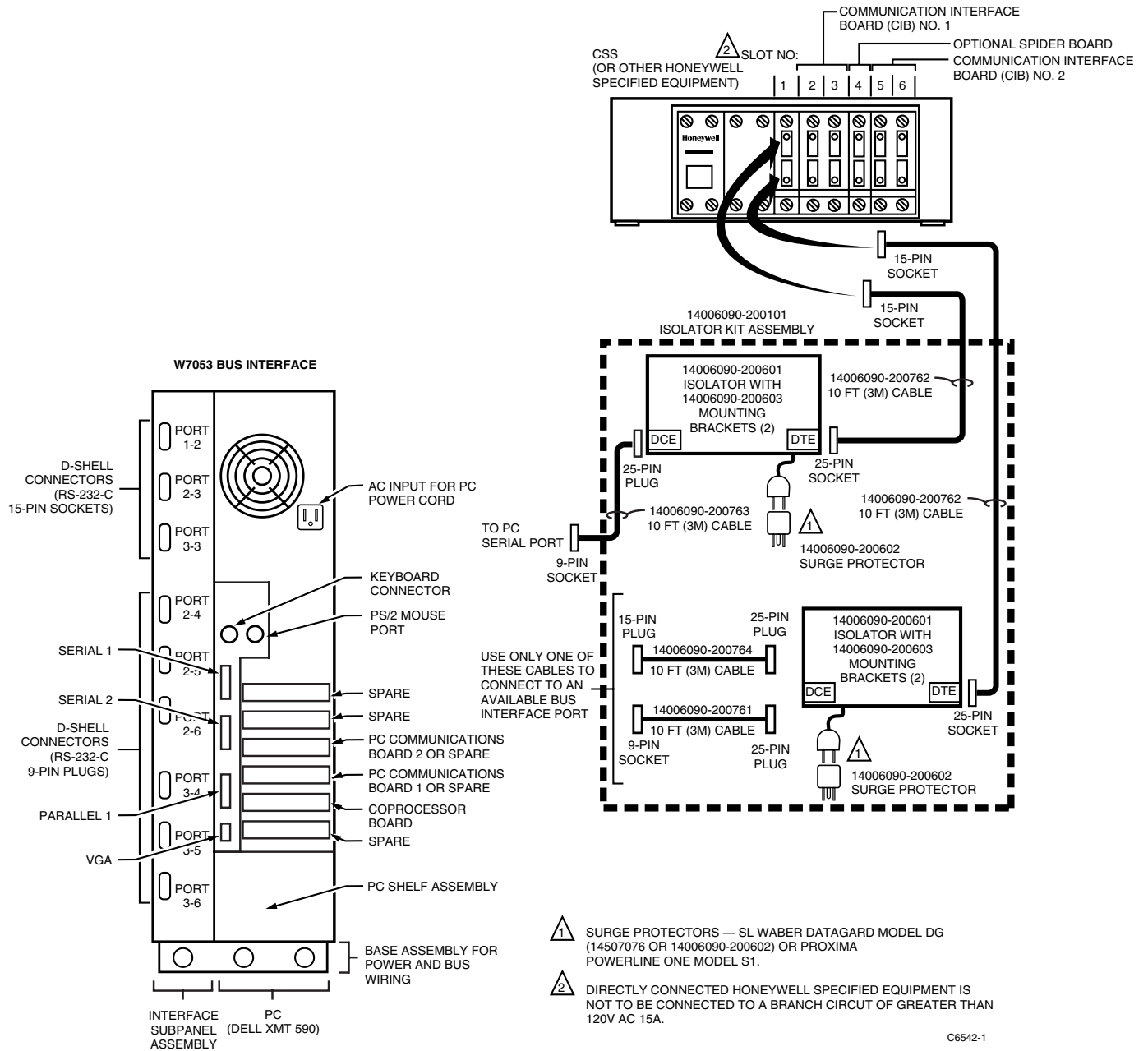**Fig. 11. Cables for SPIDER Board (CSS-IPD-01).**

Fig. 12. CSS Connection to UL Listed W7053D-E with Required Isolator Kit Assemble.

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