

TO: OUR CUSTOMERS

Our construction methods offer many quality and time saving advantages.

S - P PRODUCTS, INC. EZ PULL/EZ READ  
WIRING HARNESS SPECIFICATION SHEET

EACH HARNESS:

1. To be UL Listed as a complete assembly.
2. Each wire to be printed every 1/2 inch along its entire length with any combination of numbers and/or letters up to 64 characters including spaces. Common neutrals and grounds can be labeled per above to show all the circuits they pertain to and therefore aid the contractor when trouble shooting.
3. Wires to be bound together by PVC Cross Tape Only Method with easy to remove tabs to enable the conductors to flow separately and freely into the conduit or wireway. No tape or lacing remains to create a stiff, difficult to pull harness or to be snagged, cut and balled-up during the pull.
4. Trees with looped phase wires and neutrals and break-outs are available wherever needed in the harness according to the customers' exact dimensions required.
5. 360 degrees of both inside flanges of reel to be completely covered along their rim with smooth fibre glass tape to prevent conductors from being snagged or cut during the pull.
6. All conductors to run straight or parallel to allow fast break-out and termination.
7. Harnesses to be delivered on truck with hydraulic lift gate. Small reels can be grouped and palletized laying flat and stacked. Larger reels to be shipped upright so they can easily be rolled from the truck.
8. To have a 4" tall IBEW Union Label on one outer flange.

**SP** **PRODUCTS, INC.**  
*Productivity and value thru ideas*

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(847) 593-8595 • Fax (847) 593-8629  
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All products are:



Made in the U.S.A.

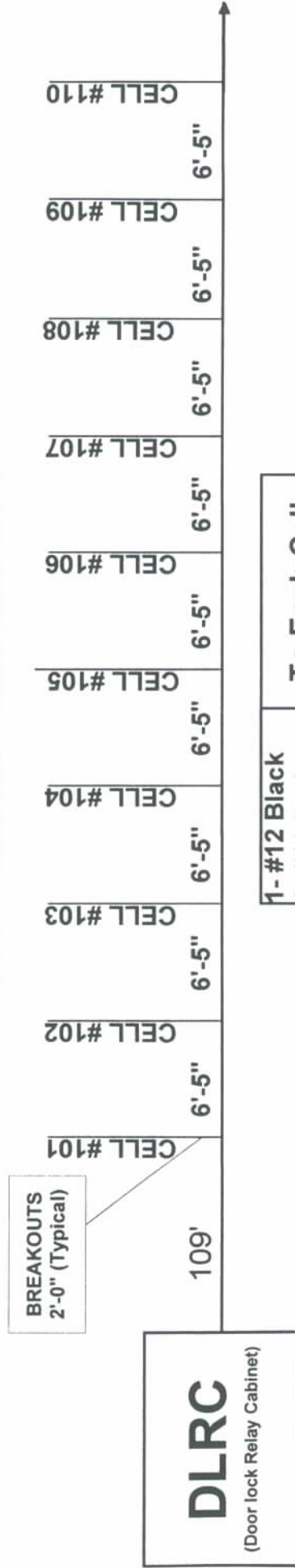
IBEW  
Union Made

# PRISONS, JAILS, DETENTION CENTERS, etc....

## DOOR LOCK CONTROL HARNESSING INSTALLED IN HEADER DUCT.

# TYPICAL LAYOUT

## 1st Floor of 6 Floors



This is an example of a typical layout for a Door Lock Control Harness that would be installed in a "Header Duct".

S-P Products can work with you to help you design a custom harness for whatever your job might require.

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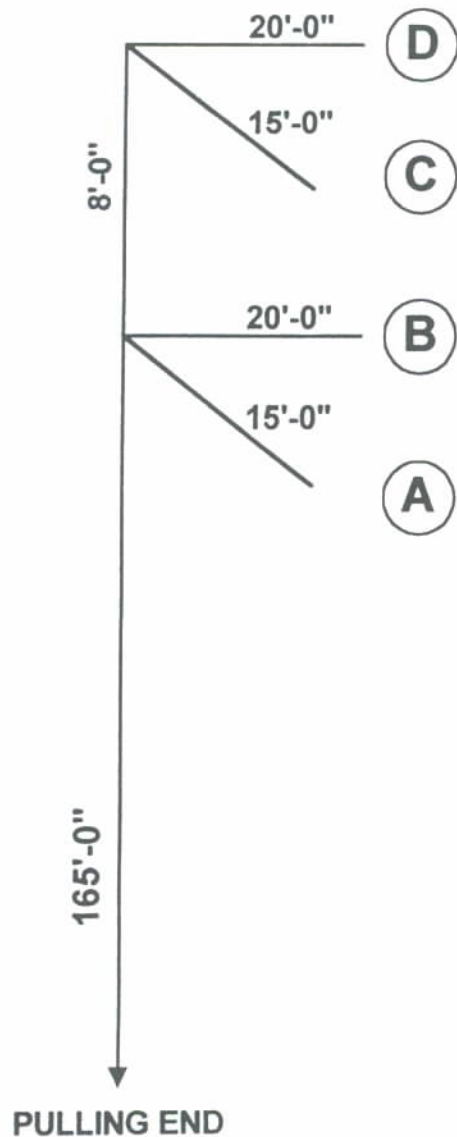
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# COOK COUNTY JAIL DIV. 11 "Door Locking System"

Typical Wiring Harness Layout for the Cell Doors in a "Pod Design."



## WIRE HARNESS

BREAKOUT WIRE COLOR PRINTING

<b>A</b>	YELLOW	Pod #3-Door 101
	WHITE	Pod #3-Door 101
	BLUE	Pod #3-Door 101
	PURPLE	Pod #3-Door 101
	GREEN	Pod #3-Door 101
<b>B</b>	YELLOW	Pod #3-Door 102
	WHITE	Pod #3-Door 102
	BLUE	Pod #3-Door 102
	PURPLE	Pod #3-Door 102
	GREEN	Pod #3-Door 102
<b>C</b>	YELLOW	Pod #3-Door 103
	WHITE	Pod #3-Door 103
	BLUE	Pod #3-Door 103
	PURPLE	Pod #3-Door 103
	GREEN	Pod #3-Door 103
<b>D</b>	YELLOW	Pod #3-Door 104
	WHITE	Pod #3-Door 104
	BLUE	Pod #3-Door 104
	PURPLE	Pod #3-Door 104
	GREEN	Pod #3-Door 104

**Note: All wire to be #14 Thhn Stranded**

*This was an actual layout diagram from the Door Locking System @ the Cook County Jail Div. 11 Project.*

*Approx. 1.4million ft. of #14 Thhn was harnessed for this job by S-P Products.*

*The harnesses were designed to feed 4 doors from each homerun.*

*The printing of each wire saved the contractor enormously because the specs. for the job stated that all the wires had to be identified (tagged) at each and every junction and pull box used on the job.*



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LARGE THEATER - AUDIENCE  
 PRECUT BUNDLED WIRE PACKAGE  
 FOR DB-3A DIMMING CIRCUITS

10. 12/C #8, 1#126:

	DIMMER CIRCUIT #		CONDUCTOR LENGTH	WIRE COLOR	NEUTRAL COLOR
1	CB1(33)-	25	165	BLACK	WHITE
2	CB1(33)-	26	165	BLACK	WHITE
3	CB1(33)-	27	165	BLACK	WHITE
4	CB1(33)-	28	165	BLACK	WHITE
5	CB1(33)-	29	165	BLACK	WHITE
6	CB1(33)-	30	165	BLACK	WHITE
1	CE4(147)-	279	170	BLACK	WHITE
2	CE4(147)-	280	170	BLACK	WHITE
3	CE4(147)-	281	170	BLACK	WHITE
4	CE4(147)-	282	170	BLACK	WHITE
5	CE4(147)-	283	170	BLACK	WHITE
6	CE4(147)-	284	170	BLACK	WHITE
1	CE5(149)-	285	195	BLACK	WHITE
2	CE5(149)-	286	195	BLACK	WHITE
3	CE5(149)-	287	195	BLACK	WHITE
4	CE5(149)-	288	195	BLACK	WHITE
5	CE5(149)-	289	195	BLACK	WHITE
6	CE5(149)-	290	195	BLACK	WHITE
1	CE6(151)-	291	215	BLACK	WHITE
2	CE6(151)-	292	215	BLACK	WHITE
3	CE6(151)-	293	215	BLACK	WHITE
4	CE6(151)-	294	215	BLACK	WHITE
5	CE6(151)-	295	215	BLACK	WHITE
6	CE6(151)-	296	215	BLACK	WHITE
1	AGL1(650)-2443R, SRPN13-13		280	BLACK	WHITE
2	AGL1(650)-2444R, SRPN13-15		280	RED	WHITE
3	AGC1(650)-2449R, SRPN13-1		280	BLACK	WHITE
4	AGC1(650)-2450R, SRPN13-3		280	RED	WHITE
5	AGR1(650)-2455R, SRPN13-25		280	BLACK	WHITE
6	AGR1(650)-2456R, SRPN13-27		280	RED	WHITE

Reel # 1

Reel # 2

Reel # 3

Reel # 4

Reel # 5

WIRE TOTALS FOR THIS CABLE ASSEMBLY:

#12	#10	#8	#6	#4	#2	#1/0
1,025	0	12,300	0	0	0	0

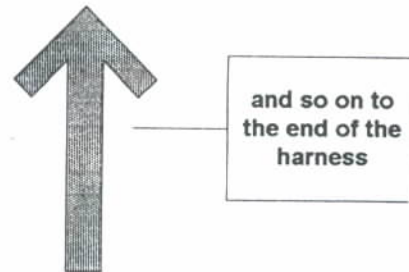
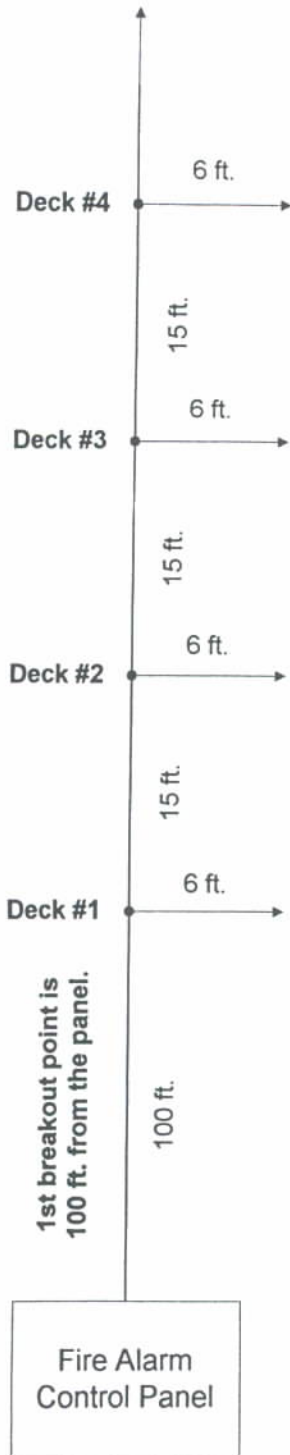
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**IT IS EASY TO PLAN A S-P "EZ-PULL/EZ-READ" TREE FOR HARDWIRED FIRE ALARM, DATA, TELEPHONE, SECURITY, ENVIRONMENTAL, DIMMING, CONVEYORS, AND ALL OTHER TYPES OF INSTALLATIONS THAT REQUIRE POWER AND CONTROL CIRCUITS FEEDING VARIOUS LOCATIONS FROM THE SAME PANEL.**



Conductors broken out	Color	Printing	Length
4 - #14's Thhn Stranded	Red	#4	121 ft.
4 - #14's Thhn Stranded	Red	#5	121 ft.
4 - #14's Thhn Stranded	Blue	#6	121 ft.
2 - #12's Thhn Stranded	Blk/Wh	#AV-2	121 ft.

Conductors broken out	Color	Printing	Length
4 - #14's Thhn Stranded	Red	#1	106 ft.
4 - #14's Thhn Stranded	Red	#2	106 ft.
4 - #14's Thhn Stranded	Blue	#3	106 ft.
2 - #12's Thhn Stranded	Blk/Wh	#AV-1	106 ft.

**NOTE: Show how you intend to pull the harness:**

- A. Drop blunt end to panel.**
- B. Pull staggered end up from panel.**
- C. Feed harness from a point in the middle of the harness, either dropping the blunt end down and removing the balance off of the reel and feeding the staggered end up, or vice versa.**

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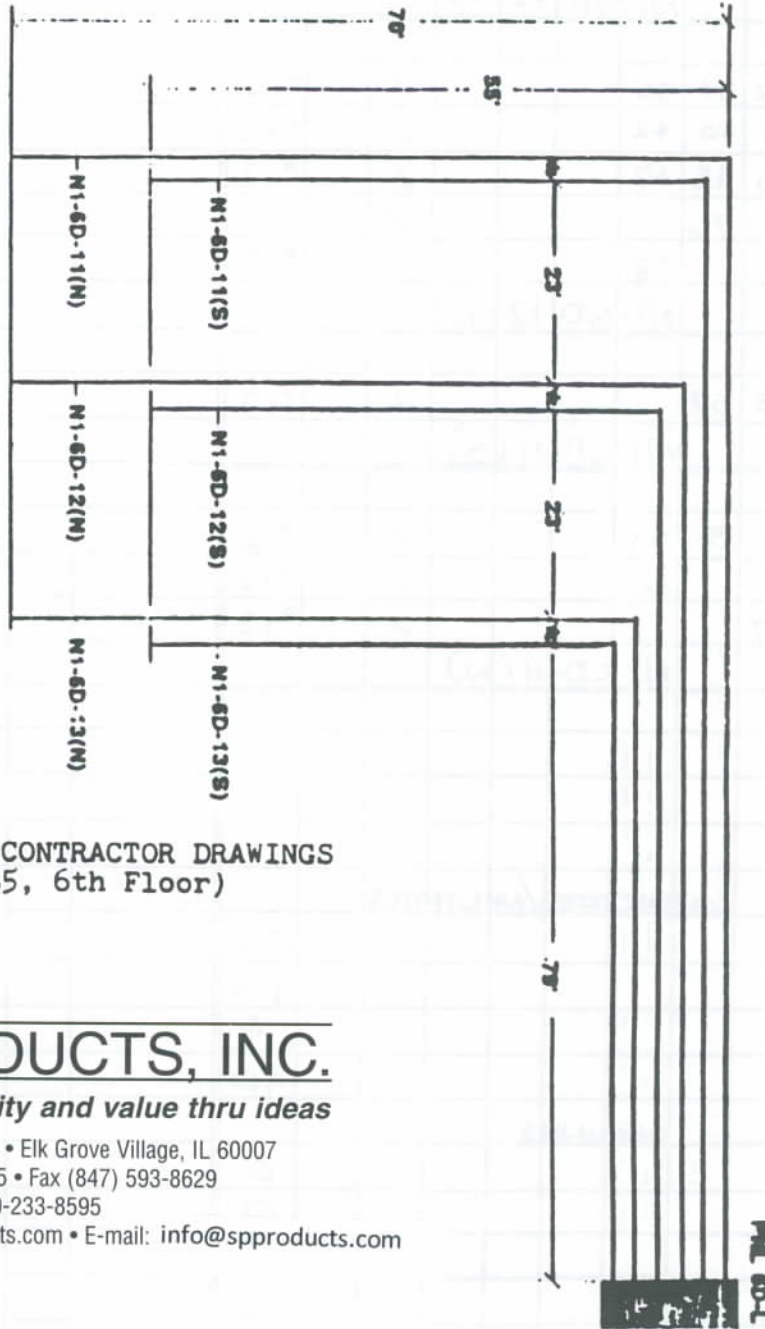
TWO SEPERATE BRANCH LINES LEAVE  
MAIN TRUNK LINE AT SAME POINT

A RECENT LARGE HOSPITAL JOB

As featured in the January 1992  
issue of Electrical Contractor  
magazine, "Top 25" Products.

PANEL 6D-L (120V RECEPTACLE PANEL)

LAY IN N1SP-6-C  
NORTH OF BARRIER



ONE OF 433 ACTUAL CONTRACTOR DRAWINGS  
(Harness #34 of 35, 6th Floor)



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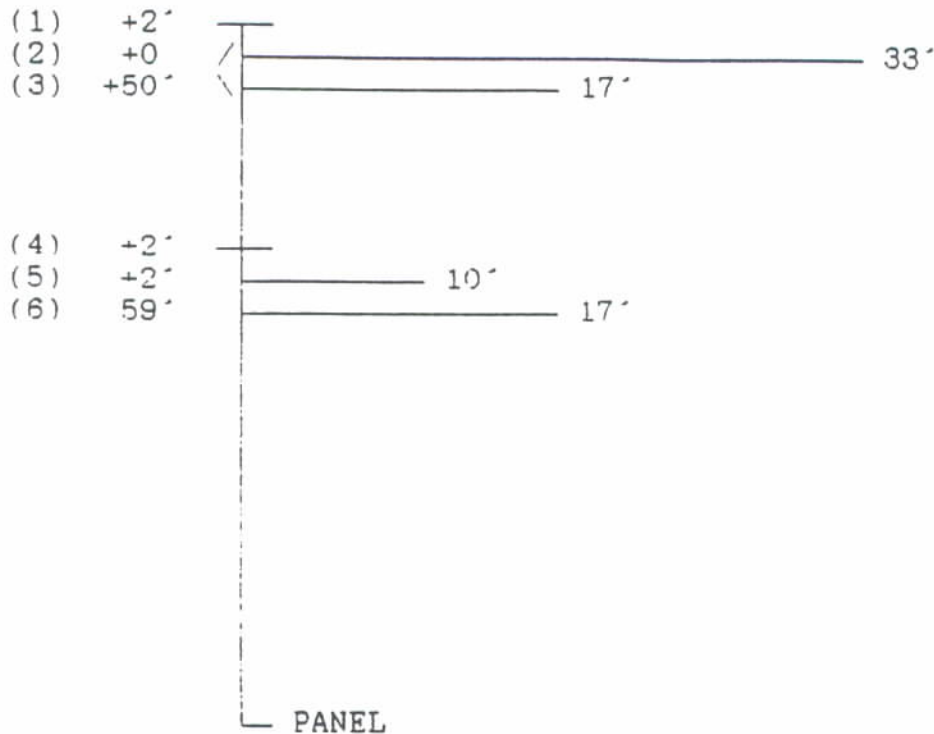


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B BLDG.  
4 TH. FLR.  
SHT. E 110

MARK:  
SERVICE BAY 4 B1  
COL. C --- D ANGLE RUN  
PANEL 4 B1 NLA



PANEL 4 B1 NLA. CIRCUIT NUMBERS, WIRE SIZE AND COLOR.

- (1) 4 B1 NLA G1 #8 GN TRUNK GROUND.
- (2) 13 #10 RD. 15 #10 BK, 13,15,17 #10 WE NEUTRAL. G1 #10 GN 2' INTO TRUNK.
- (3) 17 #10 BE. 17 #10 WE NEUTRAL 2' INTO TRUNK FOR FIELD JOINT. 19 #10 RD. 19 #10 WE NEUT. G1 #10 GN 2' LOOP ~~W/~~ BRANCH (4) AND 2' INTO TRUNK.
- (4) 4 B1 NLA G2 #8 GN W/WE TRACE TRUNK GROUND.
- (5) 6 #10 BE. 6 #10 WE NEUT. 8 #10 RD, 10 #10 BK, 8,10 #10 WE NEUT. G2 #10 GN W/WE TRACE 2' INTO TRUNK.
- (6) 1 #10 RD. 1 #10 WE NEUTRAL. G1 #10 GN 2' INTO TRUNK.



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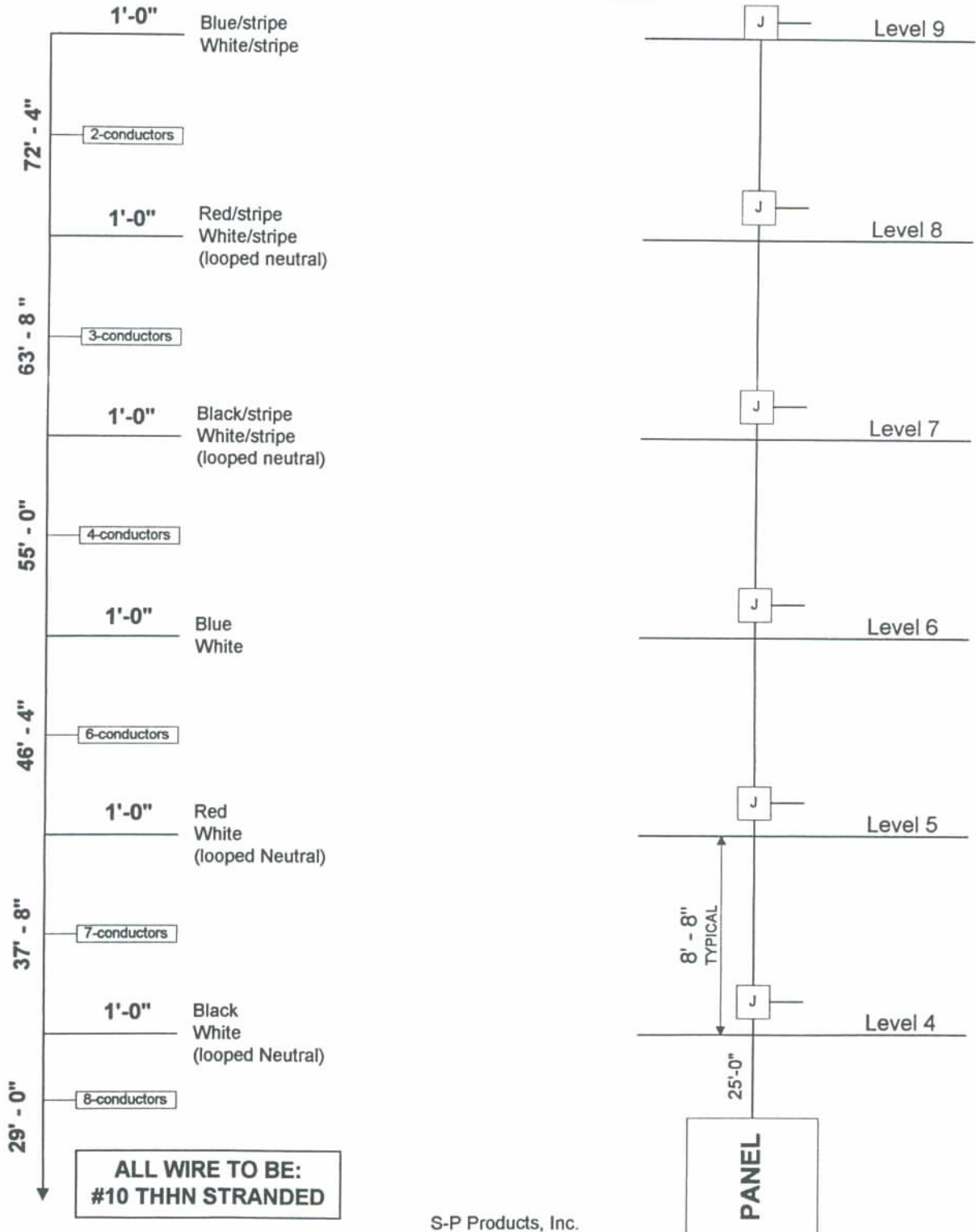
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# TYPICAL VERTICAL RISER LAYOUT for HOTEL GUEST ROOMS



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