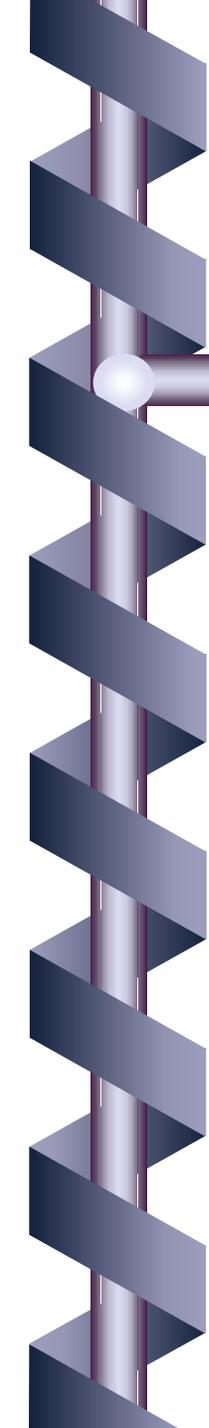


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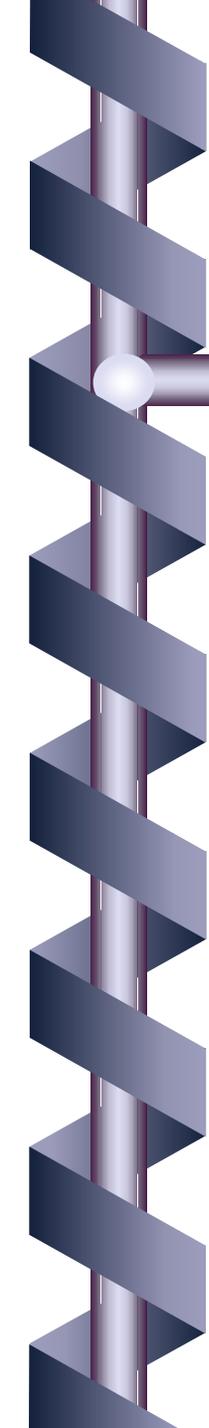


# CABLE SHOP DOCUMENTATION DEPARTMENT

---

## • FUNCTIONS INCLUDE:

- Processing cable installation job orders for the Cable Shop or contractors.
- Assigning cable numbers to new cables.
- Entering this information into the Captar database.
- Producing cable installation reports.
- Producing cable tags containing pertinent cable information.



# CAPTAR DATABASE

---

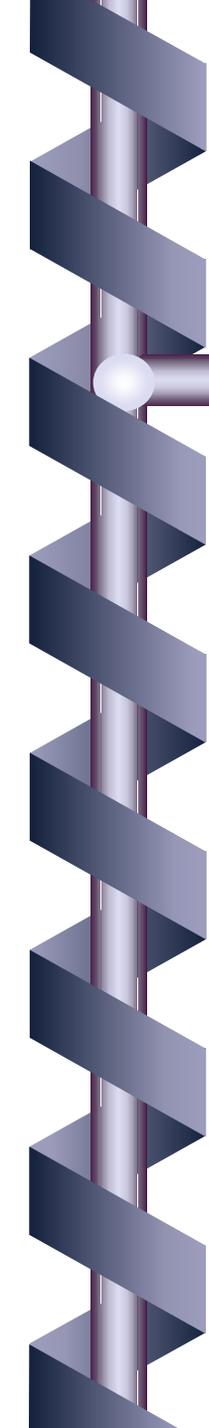
- ❁ CAPTAR stands for Cableplant Tracking and Reporting
- ❁ The Cableplant database is used primarily to tie together various assemblies through the use of cables, wires, and cross-connects.
- ❁ The Captar database is an Oracle relational database which resides on a Unix machine. Most of this information is accessible to the user through the Web.
- ❁ The address or URL of the Captar home page is:

<http://www.slac.stanford.edu/eprise/cable/captar/captar.html>

# CAPTAR HOME PAGE

- The CAPTAR Home page contains the following options:
  - Cable Plant Notes
  - Rack Profile Search
  - Crate Profile Search
  - Cable Reports
  - How to Submit a Cable Installation Job
  - Slac Buildings, Locations that have related Rack Profiles.
  - Links to beamline maps
  - System Abbreviations
  - Captar information sent to the archives
  - Closed Job Order pdf file search

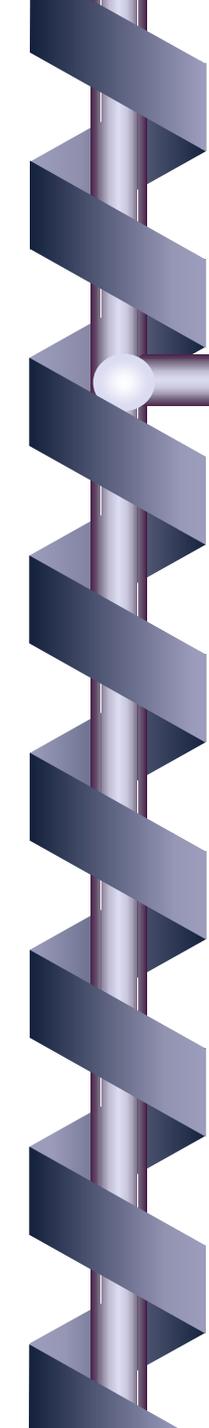
(go to home page <http://www.slac.stanford.edu/eprise/cable/captar/captar.html>)



# CABLEPLANT NOTES

---

- ☼ Clicking on “Cableplant Notes” on the Captar home page will bring up the document used by the cable department for reference.
- ☼ This document contains cable types and descriptions, connector (or termination) types and descriptions, color code tables for cable conductors and the cable installation notes.
- ☼ This document guides users when writing job orders for cable installation. There is also a pdf file for printing if desired.



# CABLEPLANT NOTES (TABLE OF CONTENTS)

---

- The Table of Contents of this document is hypertext in the web version. This enables the user to jump to the desired portion of the document without scrolling through the entire document.
- Clicking on the hypertext “TOC” that occurs throughout the web document will return you to the Table of Contents.
- The next slide shows an example of the Table of Contents.

# CABLEPLANT TABLE OF CONTENTS

ENGDOC #

GENERAL CABLE PLANT NOTES  
POWER CONVERSION DEPARTMENT  
ID-236-801-36-RX2  
Release Dated: 25-JAN-87  
Last Revision 12/02/02

## Introduction

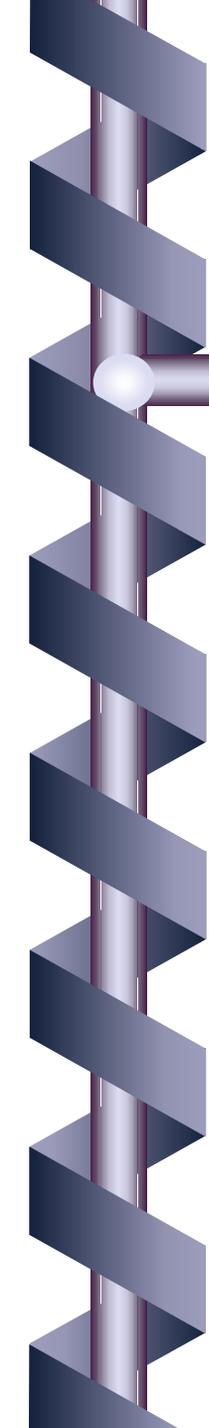
This document explains, and is to be used in conjunction with, a CABLE INSTALLATION SCHEDULE.

The CABLE INSTALLATION SCHEDULE is supplied as another document in the total package of which this document is a part.

Note that this is a general document, and may contain much more information than may be required for the CABLE INSTALLATION SCHEDULE supplied. This is particularly true of the color code, cable types and cable termination tables which follow.

This document is divided into the following sections:

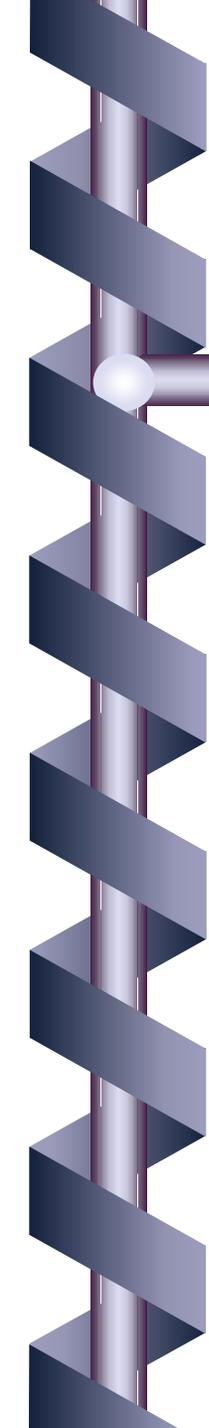
1. Introduction
2. [General Notes](#)
3. [Description of the CABLE INSTALLATION SCHEDULE](#)
4. [Table 1 - Color Code Tables \(and connection points\) for Multi-Conductor Cables](#)
5. [Table 2 - Cable Types and Cable Descriptions](#)
6. [Table 3 - Cable Termination Descriptions](#)
7. [Table 4 - Trim Codes for Coaxial Cable Terminations](#)
8. [Table 5 - Document Revision Notes \(for this document\)](#)



## CABLEPLANT NOTES (INSTALLATION SCHEDULE)

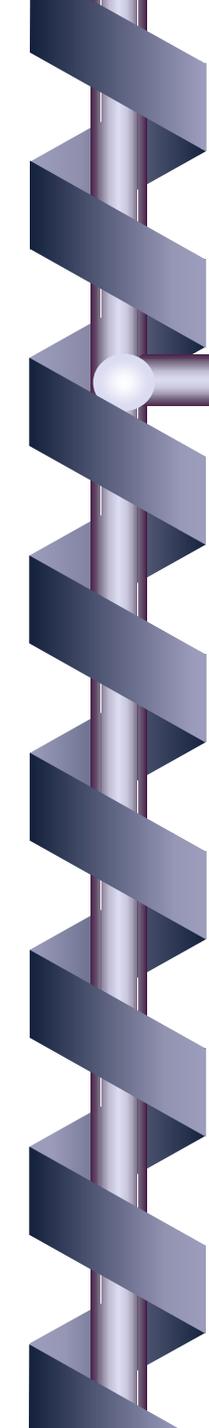
---

- ⦿ This section enables the person writing the cable installation job order to indicate to the shop or the contractor what to install and who will do the work.
- ⦿ See the partial Installation Schedule example on the following slide.



# CABLEPLANT NOTES – INSTALLATION SCHEDULE

- '0': no action to be taken by the subcontractor. This cable either exists, or is to be installed at a later time. It is listed for completeness of the CABLE INSTALLATION SCHEDULE, and especially to show the full sequence of a set of cables.
- '1': a cable with a pre-terminated end (an assembly) is delivered to the subcontractor. The subcontractor is to install the cable. The device connection is to be done later by others.
- '2': this cable has been previously installed, the subcontractor is only to terminate as indicated. Connection will be done later, by others.
- '3': the subcontractor is to install and terminate only. Connection is to be done later, by others.
- '4': the subcontractor is to make the indicated connections, the cable has been previously installed and terminated.
- '5': a cable with a pre-terminated end (an assembly) is delivered to the subcontractor. The subcontractor is to connect this end to the indicated device following cable installation.
- '6': the subcontractor is to terminate and connect only. The cable has been previously installed.
- '7': the subcontractor is to install, terminate and connect this end.
- 'M': Commercially prefabricated (not built by SLAC or to a SLAC specification) I.E. a 6' AC power cord with molded ends.
- 'P': Commercially prefabricated (not built by SLAC or to a SLAC specification) I.E. a ribbon cable with non-molded connectors.
- 'S': Special termination and connection, to be done later, by others. The subcontractor is to only install the cable.
- 'SS': Termination and connection to be done later by others. The subcontractor to only install the cable. Any excess length at both ends of the cable shall be neatly coiled as indicated in the subcontract's drawings and specifications.



# CABLEPLANT NOTES (COLOR CODE TABLES)

---

- These tables show the color codes for multiconductor cables and what cable types they are used with.
- These tables give additional information to the person writing the job order or installing the cable.
- See the following slide for an example of the a color code table.

# CABLEPLANT NOTES (COLOR CODE TABLES)

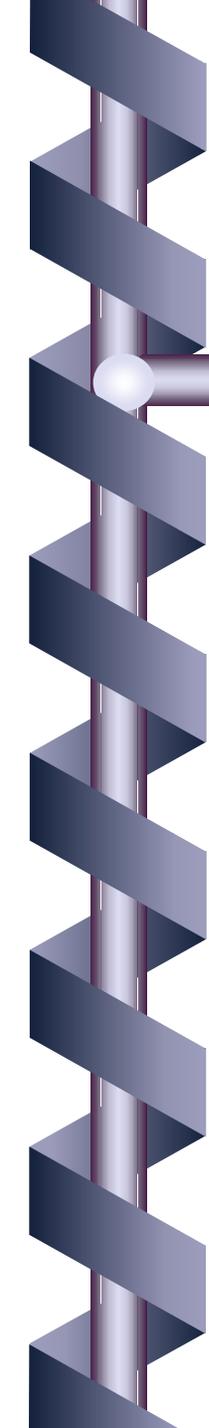
TABLE 1 - COLOR CODE 1E

The following color sequence can be applied to twisted pairs with an overall shield:

Used With CABLE TYPE

3PR22OS

<u>COND.</u> <u>NO.</u>	<u>COLOR</u> <u>CODE</u>	<u>PAIR</u> <u>NO.</u>	<u>TERM.</u> <u>LETTER</u>	<u>COND.</u> <u>NO.</u>	<u>COLOR</u> <u>CODE</u>	<u>PAIR</u> <u>NO.</u>	<u>TERM.</u> <u>LETTER</u>
1	BLK	1A	A	5	BRN	3A	E
2	WHT	1B	B	6	WHT	3B	F
3	RED	2A	C	7	DRAIN	OS	G
4	WHT	2B	D				



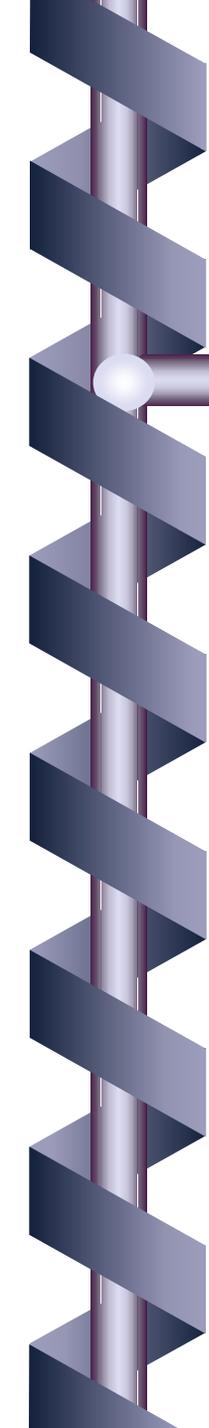
## CABLEPLANT NOTES (CABLE TYPES)

---

- The Cable Type section shows:
  - 1<sup>st</sup> column: Cable type name
  - 2<sup>nd</sup> column: Cable type description
  - 3<sup>rd</sup> column: Color code if available
  - 4<sup>th</sup> column: Suggested connector types that can be used with this cable type.
- If there is a SLAC stores number, “S/Nnnnn...”, that is hypertext, you can click on it and be transferred to the SLAC stores web page.
- The following slide shows an example of the Cable Type section.

# CABLEPLANT NOTES (CABLE TYPES)

2PR200S	TWO PAIRS, #20 AWG, 300V, OVERALL SHIELDED, TRAY CABLE, 0.27" O.D., ALPHA CAT. #45452.	1H	
2PR22IS	TWO TWISTED PAIRS, #22AWG, STRANDED, INDIVIDUALLY SHIELDED, WITH #24 AWG STRANDED COMMON DRAIN WIRE, 300 VOLT, 0.16" O.D., CM RATED, BELDEN P/N 8723.	1S	LFR
2PR220S	TWO TWISTED PAIRS, 300V, #22AWG, STRANDED, COPPER WIRE, OVERALL SHIELD WITH DRAIN WIRE, 0.31" O.D. TRAY CABLE, BELDEN CAT. #8723. SLAC <a href="#">SN61-329-314-02</a> .	1F	LSR, TT4S, DB9P AMP4P, AMP4S
2PR22SS	TWO PAIR, #22AWG, SOLID CONDUCTORS, 300V, 0.168" O.D., CM RATED, BELDEN CAT. #8795.	1c	



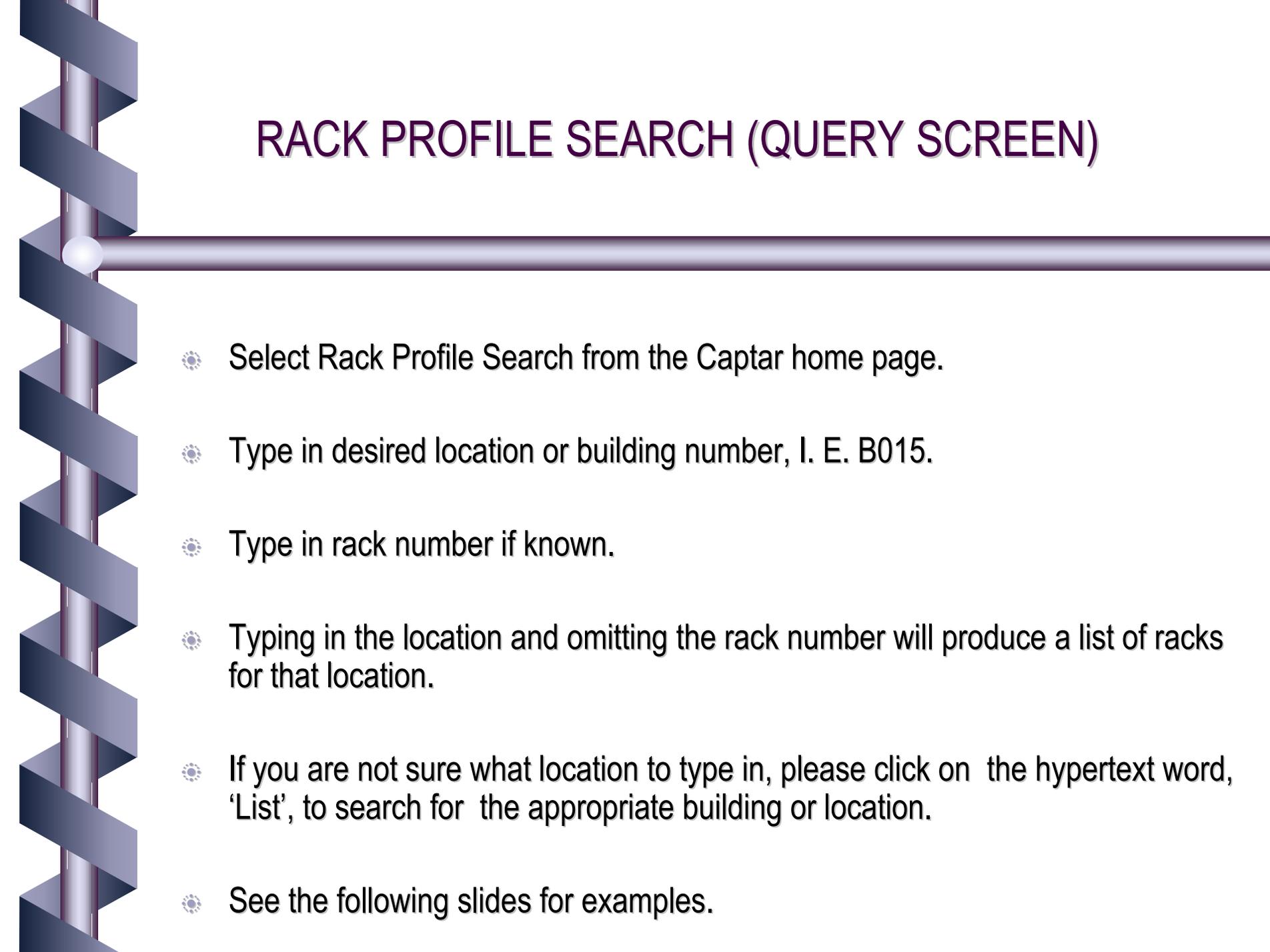
# CABLEPLANT NOTES (TERMINATION TYPES)

---

- The Termination (or connector) Type section is in the following format:
  - 1<sup>st</sup> column: Termination name
  - 2<sup>nd</sup> column: Termination description
  - 3<sup>rd</sup> column: Application where used if known
  - 4<sup>th</sup> column: Suggested cable type for that termination
- If there is a SLAC stores number, “S/Nnnnn...” that is hypertext, you can click on it and be transferred to the SLAC stores web page.
- The following slide shows an example of the Termination Type section.

# CABLEPLANT NOTES (TERMINATION TYPES)

BNC58	COAXIAL CONNECTOR, BNC CABLE PLUG, UG-88D/U. KINGS CAT. NO. KC-59-290 OR KC-59-291, SLAC S/ <a href="#">N59-299-014-51</a> . USE KINGS CRIMPING TOOL KTH-1000 WITH DIE KTH-2001 AND TRIM CODE 401.	RF AND FAST SIGNALS	RG58
BNC59	COAXIAL CONNECTOR, BNC CABLE PLUG, UG-260B/U. KINGS CAT. NO. KC-59-293 OR KC-59-294, SLAC S/ <a href="#">N59-299-014-52</a> . USE KINGS CRIMPING TOOL KTH-1000 WITH DIE KTH-2002 AND TRIM CODE 401.	TV	RG59, RG59DS
BNC62	SAME CONNECTOR AS BNC59. SAME TOOLING AND TRIM CODE.	SSC FASTLINK	RG62
BNC174	COAXIAL CONNECTOR, BNC CABLE PLUG, KINGS #KC-59-557-M06 SLAC S/ <a href="#">N59-299-014-63</a> , TRIM CODE 406. USE CRIMPING TOOL KTH-1000 WITH DIE KTH-2032.		



## RACK PROFILE SEARCH (QUERY SCREEN)

- Select Rack Profile Search from the Captar home page.
- Type in desired location or building number, I. E. B015.
- Type in rack number if known.
- Typing in the location and omitting the rack number will produce a list of racks for that location.
- If you are not sure what location to type in, please click on the hypertext word, 'List', to search for the appropriate building or location.
- See the following slides for examples.

# RACK PROFILE QUERY SPECIFYING LOCATION AND RACK

Bookmarks Location: <http://www.slac.stanford.edu/eprise/cable/captar/rack.html>

Instant Message WebMail Radio People Yellow Pages Download Calendar Channels RealPlayer Dictionary Microsoft Outlo

## CAPTAR

## Rack Profiles

Enter an appropriate value for Location and Rack then click the submit button. Entering a specific location and rack will go directly to the rack profile. If more than one match is found then you will be presented with a selection screen. You may use the \* wild card character within a value. Click on Location List for list of possible location values.

Location	<input type="text" value="KA30"/>	(required) i.e. KA04 or KA*
Rack	<input type="text" value="02"/>	(optional) i.e. 02 or 03
<input type="button" value="Submit"/> <input type="button" value="Clear"/>		

*If you are unsure of the location, please consult this [List](#). If you are unsure of the rack, just type in the location and you will get a list of racks for that location.*

---

[\[CAPTAR Home Page\]](#) [\[PEP-II Project Database\]](#) [\[SLAC Home Page\]](#)

Please send comments to: [crane@slac.stanford.edu](mailto:crane@slac.stanford.edu)

Owner: [George Crane](#)  
[SLAC Dec 1 1995](#)

# RACK PROFILE QUERY SPECIFYING LOCATION ONLY

**CAPTAR**

*Rack Profiles*

Enter an appropriate value for Location and Rack then click the submit button. Entering a specific location and rack will go directly to the rack profile. If more than one match is found then you will be presented with a selection screen. You may use the \* wild card character within a value. Click on Location List for list of possible location values.

<b>Location</b>	<input type="text" value="KA30"/>	(required) i.e. KA04 or KA*
<b>Rack</b>	<input type="text"/>	(optional) i.e. 02 or 03
<input type="button" value="Submit"/>	<input type="button" value="Clear"/>	

*If you are unsure of the location, please consult this [List](#). If you are unsure of the rack, just type in the location and you will get a list of racks for that location.*

[\[CAPTAR Home Page\]](#) [\[PEP-II Project Database\]](#) [\[SLAC Home Page\]](#)

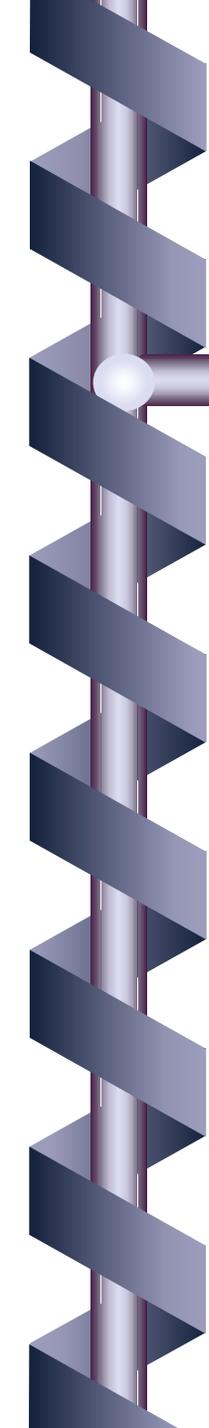
Please send comments to: [crane@slac.stanford.edu](mailto:crane@slac.stanford.edu)

Owner: [George Crane](#)  
[SLAC Dec 1 1995](#)

# DISPLAY RESULT PRODUCED BY ENTERING LOCATION ONLY

## Rack Profile

Rack Location	Building
<a href="#">KA30-0</a>	KLYSTRON ALCOVE SECTOR 30
<a href="#">KA30-01</a>	KLYSTRON ALCOVE SECTOR 30
<a href="#">KA30-02</a>	KLYSTRON ALCOVE SECTOR 30
<a href="#">KA30-03</a>	KLYSTRON ALCOVE SECTOR 30
<a href="#">KA30-04</a>	KLYSTRON ALCOVE SECTOR 30
<a href="#">KA30-05</a>	KLYSTRON ALCOVE SECTOR 30
<a href="#">KA30-06</a>	KLYSTRON ALCOVE SECTOR 30
<a href="#">KA30-07</a>	KLYSTRON ALCOVE SECTOR 30
<a href="#">KA30-08</a>	KLYSTRON ALCOVE SECTOR 30
<a href="#">KA30-09</a>	KLYSTRON ALCOVE SECTOR 30
<a href="#">KA30-10</a>	KLYSTRON ALCOVE SECTOR 30
<a href="#">KA30-11</a>	KLYSTRON ALCOVE SECTOR 30
<a href="#">KA30-12</a>	KLYSTRON ALCOVE SECTOR 30
<a href="#">KA30-13</a>	KLYSTRON ALCOVE SECTOR 30



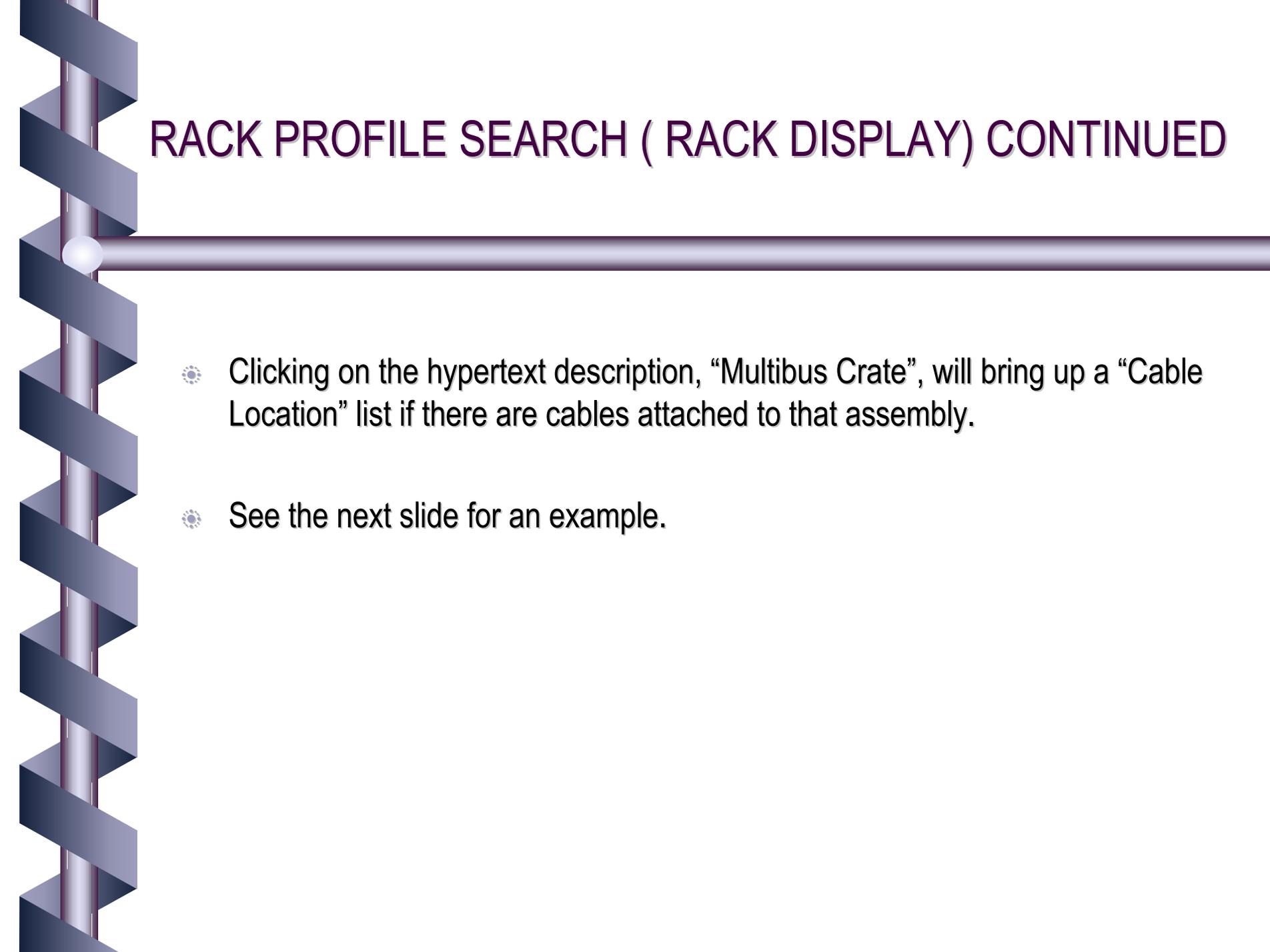
## RACK PROFILE SEARCH (RACK DISPLAY)

---

- The rack will display both front and back if there is an assembly in the back of the rack.
- Each assembly has an assembly description, I.E. “Multibus Crate” and an assembly type, I.E. “123-631-00”.
- See the next slide for an example of the front of a rack.

# Rack Profile

FRONT	KA30-02
	48 47 46 45 44 43 42 41 40 39 38 37 36
<input type="radio"/> <a href="#">MULTIBUS CRATE</a>	35 34 33 32 31 30 29 28 123-631-00
<input type="radio"/> <a href="#">SLC POWERED CAMAC CRATE</a>	27 26 25 24 23 22 21 (LB@CR01) 135-753-00
<input type="radio"/> CAMAC BLOWER	20 19 18 17 16 135-757-00
<input type="radio"/> CAMAC CABLE FEEDTHRU	15 123-691-00
<input type="radio"/> CAMAC CABLE FEEDTHRU	14 123-691-00
<input type="radio"/> <a href="#">MIL-1553 FEEDTHRU</a>	13 345-312-00
	12 11 10 9 8 7 6
<input type="radio"/> MULTIBUS P.S.	5 4 3 2 1 233-205-00

A decorative vertical bar on the left side of the slide, featuring a dark blue spiral ribbon wrapped around a vertical grey rod. A horizontal grey line extends from the rod across the top of the slide.

## RACK PROFILE SEARCH ( RACK DISPLAY) CONTINUED

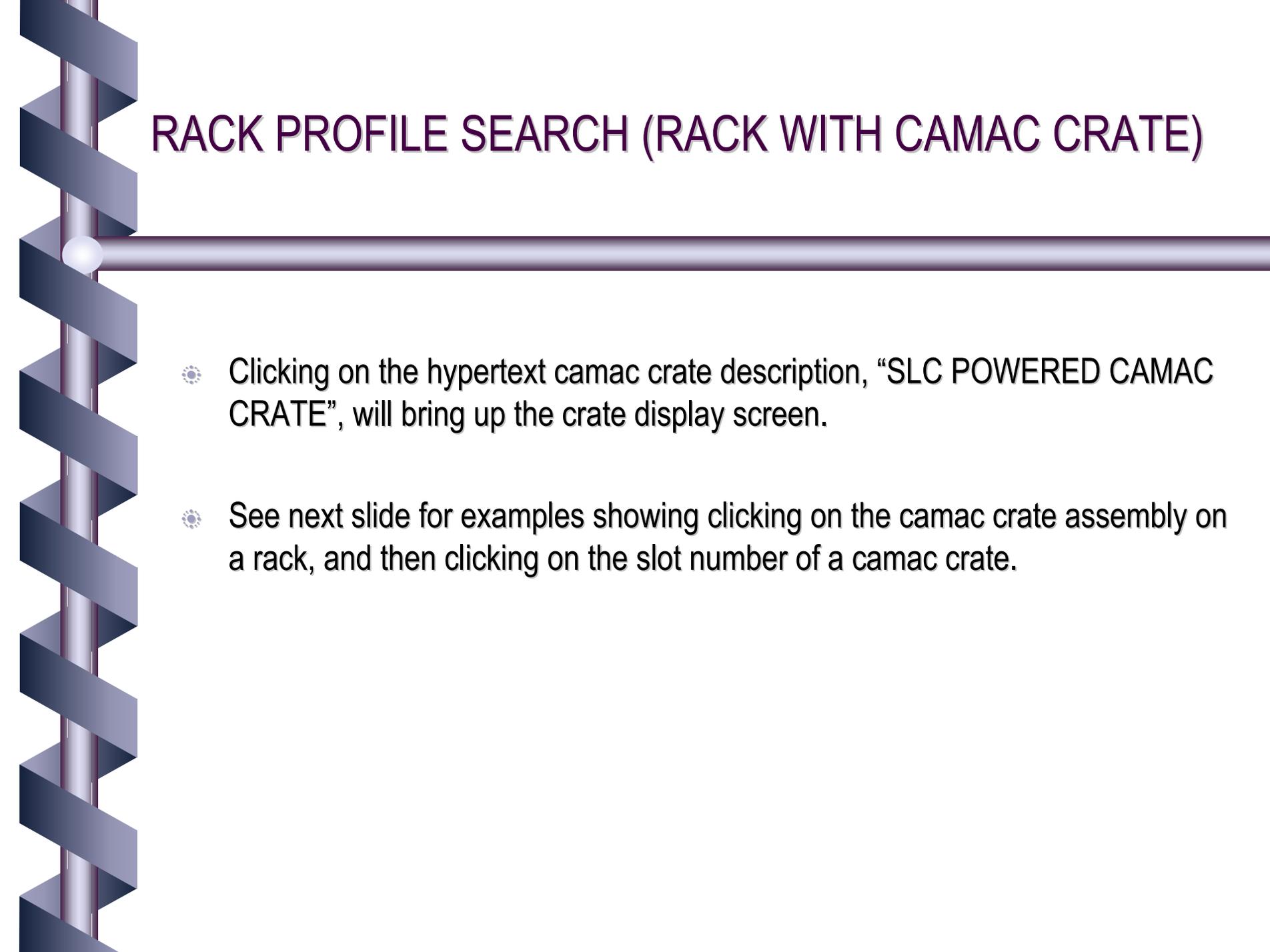
- ☼ Clicking on the hypertext description, “Multibus Crate”, will bring up a “Cable Location” list if there are cables attached to that assembly.
- ☼ See the next slide for an example.

# CABLE LOCATION EXAMPLE

## Cable Location

From: KA30-02 Side=F Elevation=28

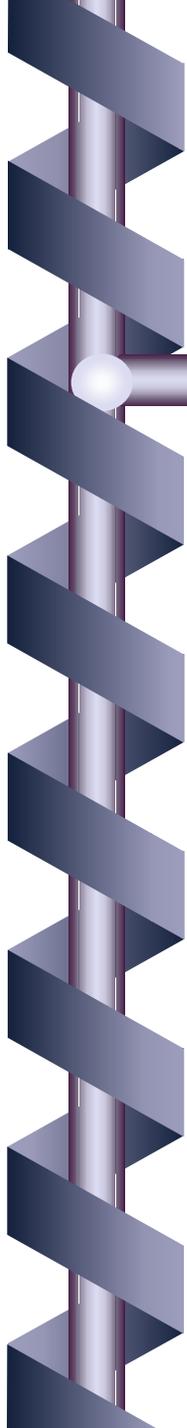
System	Func	Type	CableNum	From	Term	To	Term	Length	Routing
MLTI-BUS,FB31	MULTIBUS CABLES	3PR24IS	<a href="#">C002830</a>	KA30-0228---J41	?	B136-1531---J42	?		
LI29-KISN,LI30	KISNET RJ023	3PR24IS	<a href="#">LI10930</a>	KA30-0228---J41	MS6PSB	KA29-0228---J42	MS6PSB	350	



## RACK PROFILE SEARCH (RACK WITH CAMAC CRATE)

- ☼ Clicking on the hypertext camac crate description, “SLC POWERED CAMAC CRATE”, will bring up the crate display screen.
- ☼ See next slide for examples showing clicking on the camac crate assembly on a rack, and then clicking on the slot number of a camac crate.

# Rack Profile



FRONT	KA30-02
-	48 47 46 45 44 43 42 41 40 39 38 37 36
<input type="radio"/> <a href="#">MULTIBUS CRATE</a>	35 34 33 32 31 30 29 28 123-631-00
<input type="radio"/> <a href="#">SLC POWERED CAMAC CRATE</a>	27 26 25 24 23 22 21 (LB0/CR0) 135-753-00
<input type="radio"/> CAMAC BLOWER	20 19 18 17 16 135-757-00
<input type="radio"/> CAMAC CABLE FEEDTHRU	15 123-691-00
<input type="radio"/> CAMAC CABLE FEEDTHRU	14 123-691-00
<input type="radio"/> <a href="#">MIL-1553 FEEDTHRU</a>	13 345-312-00
	12 11 10 9 8 7 6
<input type="radio"/> MULTIBUS P.S.	5 4 3 2 1 233-205-00

Click Here →



## Crate Profile

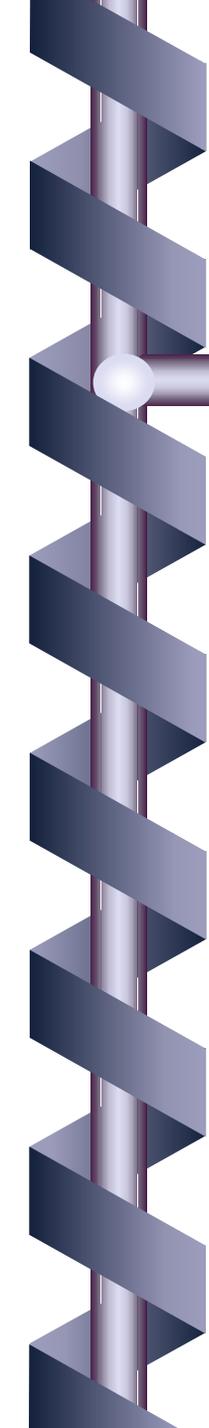
Location: KA30-02(21)

Micro: LI30-CR01

Assemble: SLC POWERED CAMAC CRATE

Slot	Status	SLAC Number	Module Name	Date Entered
1	O	<a href="#">123-589-00</a>	CRATE VERIFIER	04-SEP-1990
2	O	<a href="#">123-603-00</a>	SMART ANALOG MONITOR (SAM)	02-JUL-1990
3	O	<a href="#">DS-3016</a>	DAC CAMAC MODULE	04-SEP-1990
4	O	<a href="#">DS-3016</a>	DAC CAMAC MODULE	02-JUL-1990
5	O	<a href="#">135-562-00</a>	IDIM	04-SEP-1990
6	O	<a href="#">135-562-00</a>	IDIM	04-SEP-1990
7				
8				
9	O	<a href="#">135-562-00</a>	IDIM	27-SEP-1990
10	O	<a href="#">135-568-00</a>	IDOM	26-SEP-1990
11	O	<a href="#">123-603-00</a>	SMART ANALOG MONITOR (SAM)	27-SEP-1990
12	O	<a href="#">DS-3016</a>	DAC CAMAC MODULE	26-SEP-1990
13	O	<a href="#">135-562-00</a>	IDIM	26-SEP-1990
14	O	<a href="#">233-103-00</a>	MMC	06-JAN-2000
15	O	<a href="#">125-645-01</a>	LDIM	07-APR-1997
16	O	<a href="#">125-645-01</a>	LDIM	24-JUN-1997
17	O	<a href="#">125-645-01</a>	LDIM	24-JUN-1997
18	O	<a href="#">DS-3016</a>	DAC CAMAC MODULE	27-SEP-1990
19	O	<a href="#">135-562-00</a>	IDIM	27-SEP-1990
20	O	<a href="#">135-568-00</a>	IDOM	27-SEP-1990
21	O	<a href="#">123-603-00</a>	SMART ANALOG MONITOR (SAM)	27-SEP-1990
22	O	<a href="#">135-567-00</a>	PULSED POWER OUTPUT MOD (PPOM)	26-SEP-1990
23	O	<a href="#">233-252-00</a>	VETO	23-JUN-1997
24				
25	O	<a href="#">135-559-00</a>	SERIAL CRATE CONTROLLER MODEL 2	26-SEP-1990

Click here →



## RACK PROFILE SEARCH FOR CAMAC CRATE

---

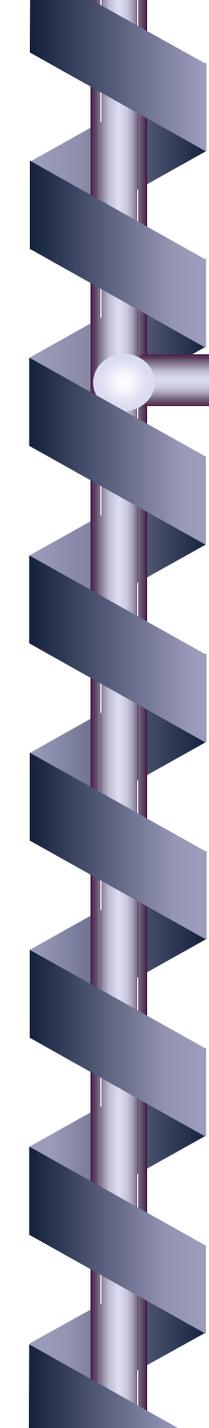
- Clicking on the hypertext slot number will bring up the cable location list for that slot.
  - (The following slide shows the cable location list for slot 16).
- Clicking on the hypertext “Slac number” will display Cater information if available.
  - (Our department does not maintain this information.)

# CABLE LOCATION FROM CRATE PROFILE QUERY

## Cable Location

From: KA30-02 Elevation=21 Slot=16

System	Func	Type	CableNum	From	Term	To	Term	Length	Routing
HNIT:STPR,IDIM	PPS STAT PAB022	18PR22OS	<a href="#">RP24250</a>	KA30-0221-S16-J2 A1/C12	AMP36P	KA30-0607---BTB12 01C36	LFR	15	
PEP2:PPS-,STAT	HE HAZD PAB024	18PR22OS	<a href="#">RP24833</a>	KA30-0221-S16-J1 A1/C12	AMP36P	KG30-C0107---BTB11 01C36	LFR	120	



## RACK PROFILE SEARCH (CABLE LOCATION LISTING)

---

- ☼ Clicking on the hypertext cable number on the cable location screen will bring up a termination listing if the cable pins are linked in the database. If not linked, you will receive a “No data found” message.
- ☼ See the following slides for examples of termination listings when cable is linked or the “No data found message”.

(Interpret the termination listing as both conductor 1's are linked together, conductor 2's are linked together, etc.)

# CABLE LOCATION FROM CAMAC CRATE SLOT

## Cable Location

From: KA30-02 Elevation=21 Slot=16

System	Func	Type	CableNum	From	Term	To	Term	Length	Routing
HNIT:STPR_IDIM	PPS STAT PAB022	18PR22OS	<a href="#">RP24250</a>	KA30-0221-S16-J2 A1/C12	AMP36P	KA30-0607---BTB12 01C36	LFR	15	
PEP2:PPS-,STAT	HE HAZD PAB024	18PR22OS	<a href="#">RP24833</a>	KA30-0221-S16-J1 A1/C12	AMP36P	KG30-C0107---BTB11 01C36	LFR	120	

# TERMINATION LISTING FOR CABLE

## Termination Listing for Cable Number RP24833

Printed: 12/09/02

COND NUM	COLOR CODE	LOCA TION	RACK	ELE VTN	SLOT	CONN NUM	PIN NUM	STATUS	JOBNUM
→1	BLK	KG30	C01	7	-	BTB11	1C	OPERATIONAL	PAB024
↙1	BLK	KA30	02	21	S16	J1	A1	OPERATIONAL	PAB024
2	RED	KG30	C01	7	-	BTB11	2C	OPERATIONAL	PAB024
2	RED	KA30	02	21	S16	J1	A2	OPERATIONAL	PAB024
3	BLK	KG30	C01	7	-	BTB11	3C	OPERATIONAL	PAB024
3	BLK	KA30	02	21	S16	J1	A3	OPERATIONAL	PAB024
4	WHT	KG30	C01	7	-	BTB11	4C	OPERATIONAL	PAB024
4	WHT	KA30	02	21	S16	J1	A4	OPERATIONAL	PAB024
5	BLK	KG30	C01	7	-	BTB11	5C	OPERATIONAL	PAB024
5	BLK	KA30	02	21	S16	J1	A5	OPERATIONAL	PAB024
6	GRN	KG30	C01	7	-	BTB11	6C	OPERATIONAL	PAB024
6	GRN	KA30	02	21	S16	J1	A6	OPERATIONAL	PAB024
7	BLK	KG30	C01	7	-	BTB11	7C	OPERATIONAL	PAB024
7	BLK	KA30	02	21	S16	J1	A7	OPERATIONAL	PAB024
8	BLU	KG30	C01	7	-	BTB11	8C	OPERATIONAL	PAB024
8	BLU	KA30	02	21	S16	J1	A8	OPERATIONAL	PAB024
9	BLK	KG30	C01	7	-	BTB11	9C	OPERATIONAL	PAB024
9	BLK	KA30	02	21	S16	J1	A9	OPERATIONAL	PAB024
10	YEL	KG30	C01	7	-	BTB11	10C	OPERATIONAL	PAB024
10	YEL	KA30	02	21	S16	J1	A10	OPERATIONAL	PAB024

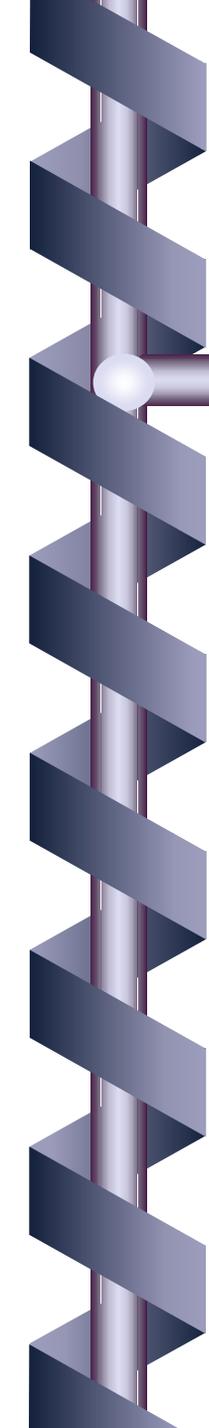
Conductor 1's are linked

# UNLINKED CONDUCTORS

## Termination Listing for Cable Number LI10930

Printed: 12/09/02

COND NUM	COLOR CODE	LOCA TION	RACK	ELE VTN	SLOT	CONN NUM	PIN NUM	STATUS	JOBNUM
-----									
rsor.c(2390) ORA-01403: no data found									



## CRATE PROFILE SEARCH (QUERY SCREEN)

---

- ❁ Click on the Crate Profile Search Screen.
- ❁ You have the option of entering either the location (or building), rack, side and elevation of the crate desired or just the micro and crate numbers. If you don't know the micro and crate number, entering the location information will display the micro and crate number.
- ❁ Submitting your query will display the "Crate Locations" screen. If you only query on the location or building, "Crate Locations" will display all the crate locations in that building or location.
- ❁ Clicking on the appropriate hypertext location will bring up the "Crate Profile" screen.
- ❁ See following slides for examples.

# CRATE SEARCH WITH LOCATION INFORMATION

**CAPTAR**

*Crate Profiles*

Enter an appropriate value for Location and CAMAC Crate then click the submit button. Entering a specific location and rack will go directly to the crate profile. If more than one match is found then you will be presented with a selection screen. You may use the \* wild card character within a value.

<b>Location</b>	<input type="text" value="KA30"/>	(required) i.e. KA04 or KA*
<b>Rack</b>	<input type="text" value="02"/>	(optional) i.e. 02 or 03
<b>Side</b>	<input type="text" value="F"/>	(optional) i.e. F or R.
<b>Elevation</b>	<input type="text" value="21"/>	(optional) i.e. 21
<b>Or</b>		
<b>Micro</b>	<input type="text"/>	(optional) i.e. PR02
<b>Crate</b>	<input type="text"/>	(optional) i.e. CR01
<input type="button" value="Submit"/>	<input type="button" value="Clear"/>	

# CRATE SEARCH WITH MICRO INFORMATION

**CAPTAR**

*Crate Profiles*

Enter an appropriate value for Location and CAMAC Crate then click the submit button. Entering a specific location and rack will go directly to the crate profile. If more than one match is found then you will be presented with a selection screen. You may use the \* wild card character within a value.

<b>Location</b>	<input type="text"/>	(required) i.e. KA04 or KA*
<b>Rack</b>	<input type="text"/>	(optional) i.e. 02 or 03
<b>Side</b>	<input type="text"/>	(optional) i.e. F or R
<b>Elevation</b>	<input type="text"/>	(optional) i.e. 21
<b>Or</b>		
<b>Micro</b>	<input type="text" value="LI30"/>	(optional) i.e. PR02
<b>Crate</b>	<input type="text" value="CR01"/>	(optional) i.e. CR01
<input type="button" value="Submit"/> <input type="button" value="Clear"/>		

# SPECIFIC LOCATION

## Crate Locations

Crates	Location	Rack	Side	Elevation
<a href="#">LI30-CR01</a>	KA30	02	F	21

# ALL CRATES FOR A LOCATION

## Crate Locations

Crates	Location	Rack	Side	Elevation
<a href="#">AP30-CR01</a>	KA30	01	F	35
<a href="#">LI30-CR01</a>	KA30	02	F	21
<a href="#">FB31-CR02</a>	KA30	13	F	18
<a href="#">FB30-CR01</a>	KA30	13	F	32

## Crate Profile

Location: KA30-02(21)

Micro: LI30-CR01

Assemble: SLC POWERED CAMAC CRATE

Slot	Status	SLAC Number	Module Name	Date Entered
1	O	<a href="#">123-589-00</a>	CRATE VERIFIER	04-SEP-1990
<a href="#">2</a>	O	<a href="#">123-603-00</a>	SMART ANALOG MONITOR (SAM)	02-JUL-1990
<a href="#">3</a>	O	<a href="#">DS-3016</a>	DAC CAMAC MODULE	04-SEP-1990
<a href="#">4</a>	O	<a href="#">DS-3016</a>	DAC CAMAC MODULE	02-JUL-1990
<a href="#">5</a>	O	<a href="#">135-562-00</a>	IDIM	04-SEP-1990
<a href="#">6</a>	O	<a href="#">135-562-00</a>	IDIM	04-SEP-1990
7				
8				
9	O	<a href="#">135-562-00</a>	IDIM	27-SEP-1990
<a href="#">10</a>	O	<a href="#">135-568-00</a>	IDOM	26-SEP-1990
<a href="#">11</a>	O	<a href="#">123-603-00</a>	SMART ANALOG MONITOR (SAM)	27-SEP-1990
12	O	<a href="#">DS-3016</a>	DAC CAMAC MODULE	26-SEP-1990
<a href="#">13</a>	O	<a href="#">135-562-00</a>	IDIM	26-SEP-1990
14	O	<a href="#">233-103-00</a>	MMC	06-JAN-2000
<a href="#">15</a>	O	<a href="#">125-645-01</a>	LDIM	07-APR-1997
<a href="#">16</a>	O	<a href="#">125-645-01</a>	LDIM	24-JUN-1997
<a href="#">17</a>	O	<a href="#">125-645-01</a>	LDIM	24-JUN-1997
<a href="#">18</a>	O	<a href="#">DS-3016</a>	DAC CAMAC MODULE	27-SEP-1990
<a href="#">19</a>	O	<a href="#">135-562-00</a>	IDIM	27-SEP-1990
20	O	<a href="#">135-568-00</a>	IDOM	27-SEP-1990
<a href="#">21</a>	O	<a href="#">123-603-00</a>	SMART ANALOG MONITOR (SAM)	27-SEP-1990
<a href="#">22</a>	O	<a href="#">135-567-00</a>	PULSED POWER OUTPUT MOD (PPOM)	26-SEP-1990
<a href="#">23</a>	O	<a href="#">233-252-00</a>	VETO	23-JUN-1997
24				
25	O	<a href="#">135-559-00</a>	SERIAL CRATE CONTROLLER MODEL 2	26-SEP-1990

# CABLE REPORTS

- ☼ Clicking on the 'Cable Reports' option on the Captar Home page brings up the following menu:



## Additional Cable Reports

Please enter selection:

1. [Termination Points For a Specified Cable](#)
2. [Wirelink Search for cross-connects](#)
3. [WireList for FASTON Terminal Block](#)
4. [Cable List for Rack](#)
5. [Customized Cable Listing](#)

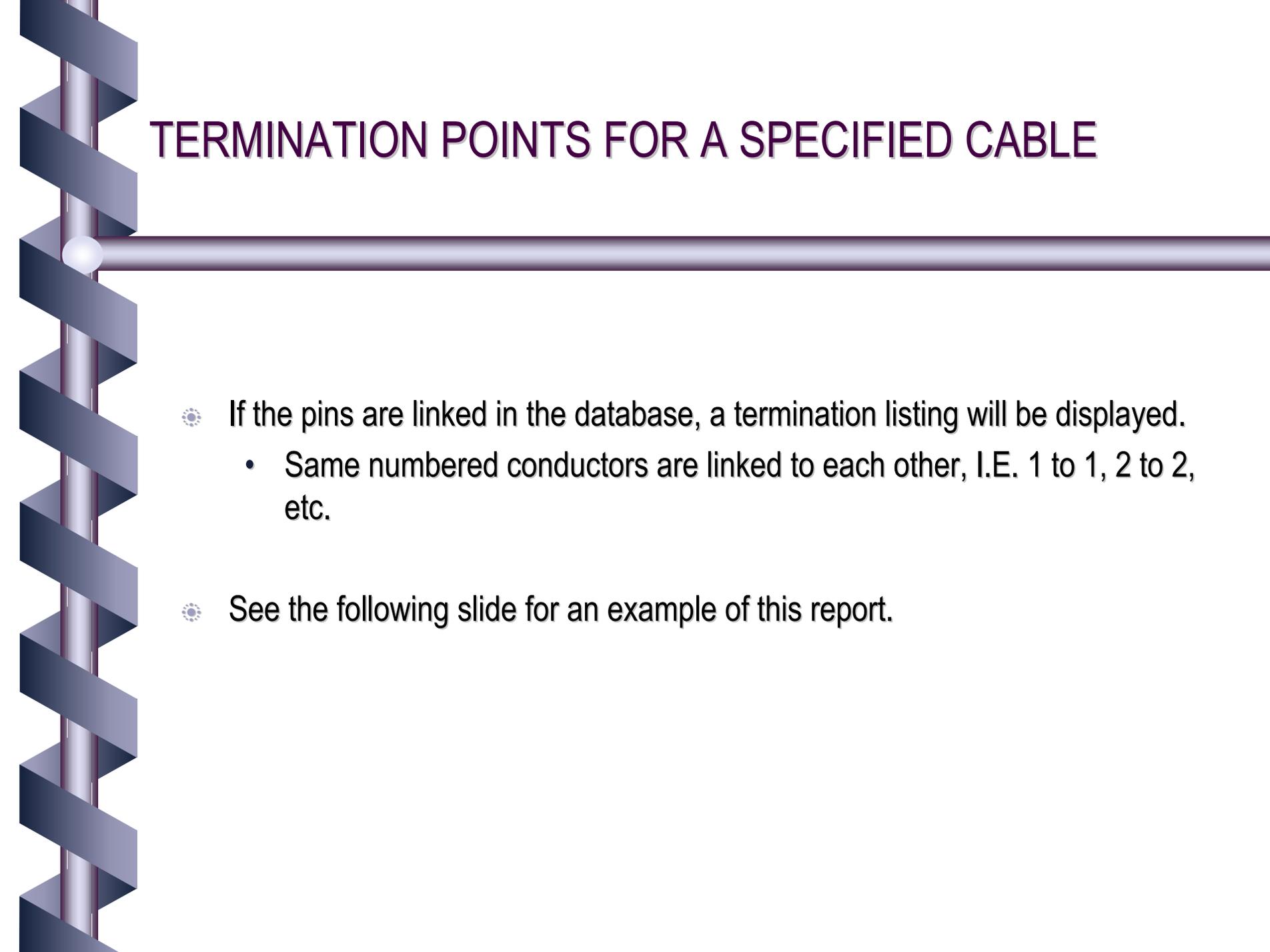
# TERMINATION POINTS FOR A SPECIFIED CABLE

- This search allows you to find the termination or pin connections of a cable if you only have the cable number.
- Enter cable number as in the following example.

## CABLE Number report

Enter the cable number you are interested in and click the submit button.

**Cable Number:**  ie. L174801

A decorative vertical bar on the left side of the slide, featuring a dark blue spiral ribbon wrapped around a vertical rod. A horizontal line extends from the rod across the top of the slide.

## TERMINATION POINTS FOR A SPECIFIED CABLE

- If the pins are linked in the database, a termination listing will be displayed.
  - Same numbered conductors are linked to each other, I.E. 1 to 1, 2 to 2, etc.
- See the following slide for an example of this report.

# TERMINATION LISTING

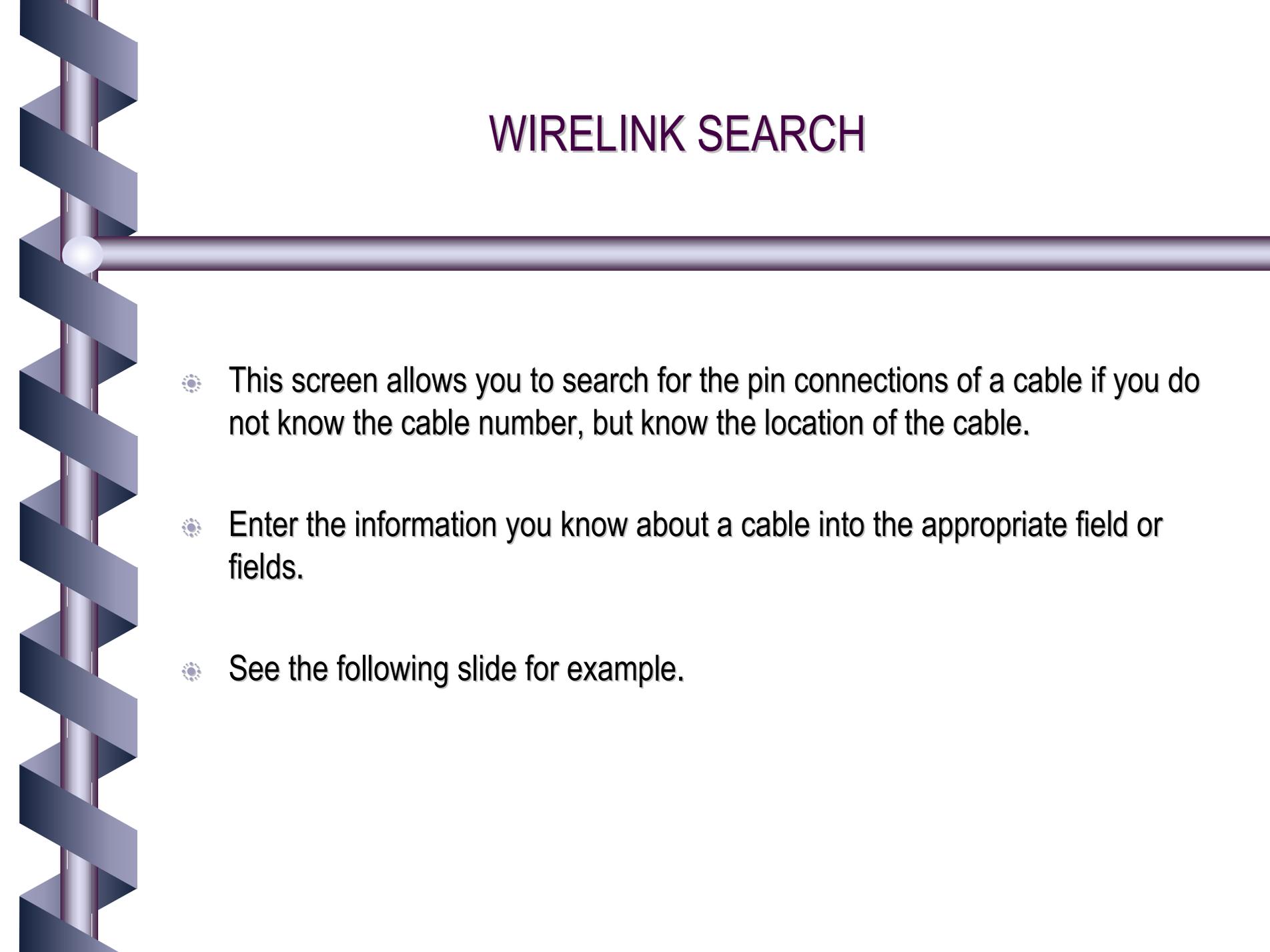
## Termination Listing for Cable Number RP24833

Printed: 12/09/02

COND NUM	COLOR CODE	LOCA TION	RACK	ELE VTN	SLOT	CONN NUM	PIN NUM	STATUS	JOBNUM
1	BLK	KG30	C01	7	-	BTB11	1C	OPERATIONAL	PAB024
1	BLK	KA30	02	21	S16	J1	A1	OPERATIONAL	PAB024
2	RED	KG30	C01	7	-	BTB11	2C	OPERATIONAL	PAB024
2	RED	KA30	02	21	S16	J1	A2	OPERATIONAL	PAB024
3	BLK	KG30	C01	7	-	BTB11	3C	OPERATIONAL	PAB024
3	BLK	KA30	02	21	S16	J1	A3	OPERATIONAL	PAB024
4	WHT	KG30	C01	7	-	BTB11	4C	OPERATIONAL	PAB024
4	WHT	KA30	02	21	S16	J1	A4	OPERATIONAL	PAB024
5	BLK	KG30	C01	7	-	BTB11	5C	OPERATIONAL	PAB024
5	BLK	KA30	02	21	S16	J1	A5	OPERATIONAL	PAB024
6	GRN	KG30	C01	7	-	BTB11	6C	OPERATIONAL	PAB024
6	GRN	KA30	02	21	S16	J1	A6	OPERATIONAL	PAB024
7	BLK	KG30	C01	7	-	BTB11	7C	OPERATIONAL	PAB024
7	BLK	KA30	02	21	S16	J1	A7	OPERATIONAL	PAB024
8	BLU	KG30	C01	7	-	BTB11	8C	OPERATIONAL	PAB024
8	BLU	KA30	02	21	S16	J1	A8	OPERATIONAL	PAB024
9	BLK	KG30	C01	7	-	BTB11	9C	OPERATIONAL	PAB024
9	BLK	KA30	02	21	S16	J1	A9	OPERATIONAL	PAB024
10	YEL	KG30	C01	7	-	BTB11	10C	OPERATIONAL	PAB024
10	YEL	KA30	02	21	S16	J1	A10	OPERATIONAL	PAB024

Linked





# WIRELINK SEARCH

- ⦿ This screen allows you to search for the pin connections of a cable if you do not know the cable number, but know the location of the cable.
- ⦿ Enter the information you know about a cable into the appropriate field or fields.
- ⦿ See the following slide for example.

# WIRELINK SEARCH

## WIRELINK database Searcher

Enter your search criteria and click the search button. You may use \* as a wild card character in any field.  
NOTE: **Location** and **Rack** are both required.

<b>Location:</b>	<input type="text" value="KA30"/>	B006
<b>Rack:</b>	<input type="text" value="02"/>	1124
<b>Elevation:</b>	<input type="text" value="21"/>	1
<b>Slot:</b>	<input type="text" value="S16"/>	-
<b>Connector Number:</b>	<input type="text" value="J2"/>	TB1
<b>Pin:</b>	<input type="text"/>	1A
<b>Flag:</b>	<input type="text"/>	
<b>Pin Job Number:</b>	<input type="text"/>	RBW215

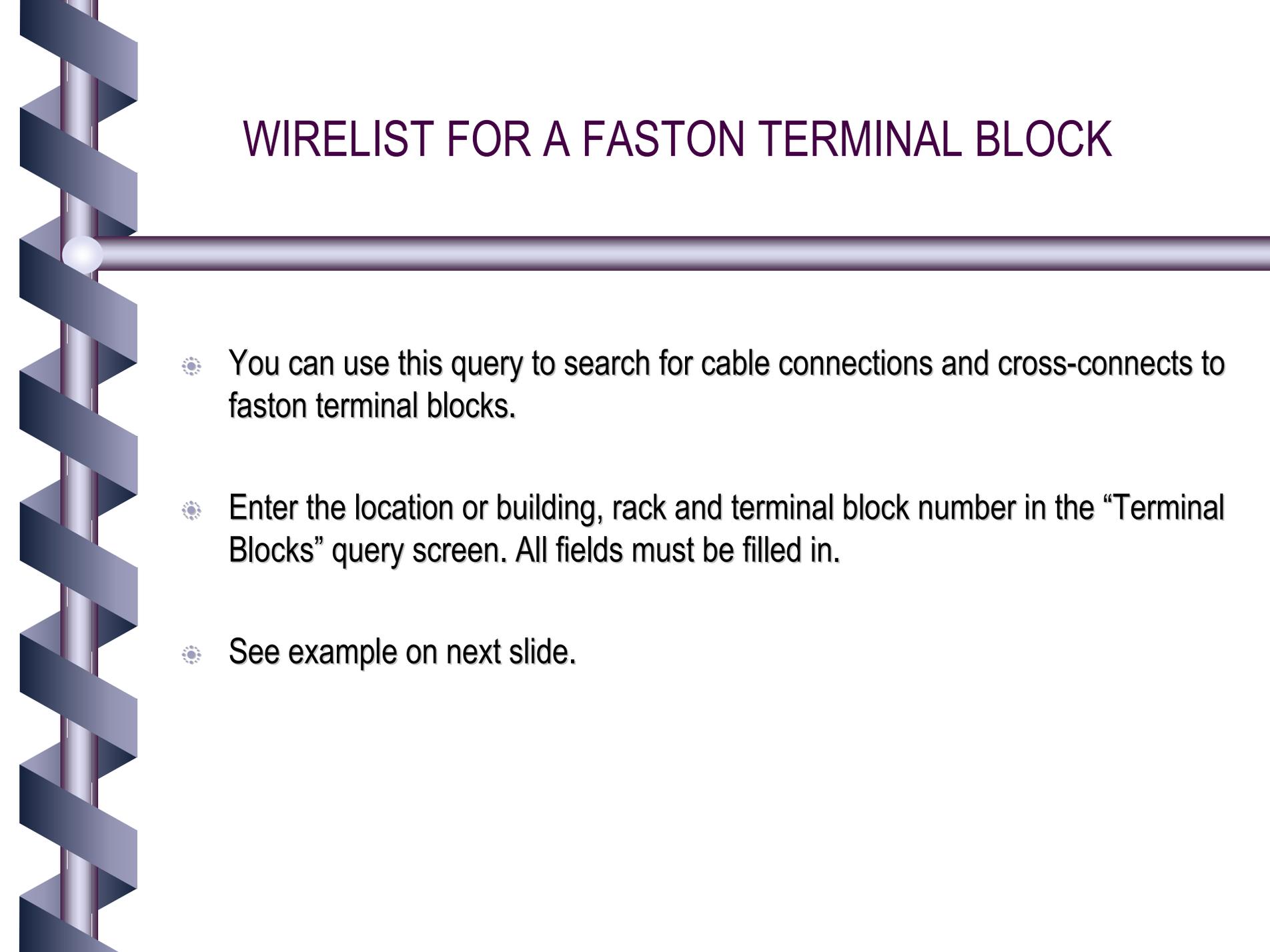
# WIRELINK SEARCH

- If the pins are linked in the database, a pin-to-pin connections screen will be displayed as in the following example.

## PIN-TO-PIN Connections

Printed: 12/10/02

ORIGIN:						DESTINATION:					
Loca- tion	Rack	El- ev	Slot	Connectr Number	Pin	Loca- tion	Rack	El- ev	Slot	Connectr Number	Pin
KA30	02	21	S16	J2	A1	KA30	06	7	-	BTB12	1C
KA30	02	21	S16	J2	A2	KA30	06	7	-	BTB12	2C
KA30	02	21	S16	J2	A3	KA30	06	7	-	BTB12	3C
KA30	02	21	S16	J2	A4	KA30	06	7	-	BTB12	4C
KA30	02	21	S16	J2	A5	KA30	06	7	-	BTB12	5C
KA30	02	21	S16	J2	A6	KA30	06	7	-	BTB12	6C
KA30	02	21	S16	J2	A7	KA30	06	7	-	BTB12	7C
KA30	02	21	S16	J2	A8	KA30	06	7	-	BTB12	8C



## WIRELIST FOR A FASTON TERMINAL BLOCK

- You can use this query to search for cable connections and cross-connects to faston terminal blocks.
- Enter the location or building, rack and terminal block number in the “Terminal Blocks” query screen. All fields must be filled in.
- See example on next slide.

# WIRELIST FOR A FASTON TERMINAL BLOCK

**CAPTAR**

*Terminal Blocks*

Enter an appropriate value for Location, Rack and Terminal Block then click the submit button. You must enter all three fields.

<b>Location</b>	<input type="text" value="B620"/>	(required) i.e. KA04
<b>Rack</b>	<input type="text" value="02"/>	(required) i.e. 02 or 03
<b>Terminal</b>	<input type="text" value="TB10"/>	(required) i.e. BTB1
<input type="button" value="Submit"/>	<input type="button" value="Clear"/>	

Output of this query on next slide

# WIRELIST FOR A FASTON TERMINAL BLOCK

## Captar Wirelist for: B620-02-TB10

Tue Dec 10 10:21:32 PST 2002

C Connection	D Connection	TB10	A Connection	B Connection
B620-0224-S11-J2-A1		1	B620-0307-TB07-20A	
B620-0224-S11-J2-A2		2	B620-0407-TB12-44A	B620-0207-TB10-4A
B620-0224-S11-J2-A3		3	B620-0307-TB07-21A	
B620-0224-S11-J2-A4		4	B620-0207-TB10-2B	B620-0207-TB10-6A
B620-0224-S11-J2-A5		5	B620-0307-TB07-24A	

# CABLE LIST FOR A RACK

- ❁ Querying on location or building and rack will display a report showing all cables connected to assemblies in that rack.
- ❁ Example of the search screen properly filled out follows:

## CABLE LIST FOR A RACK

To obtain a List of Cables for a Rack

Enter the following information:

Location :  e.g. KA30

Rack :  e.g. 02

Select the output destination that you want...

Regular Web Browser Table

Tab Delimited File



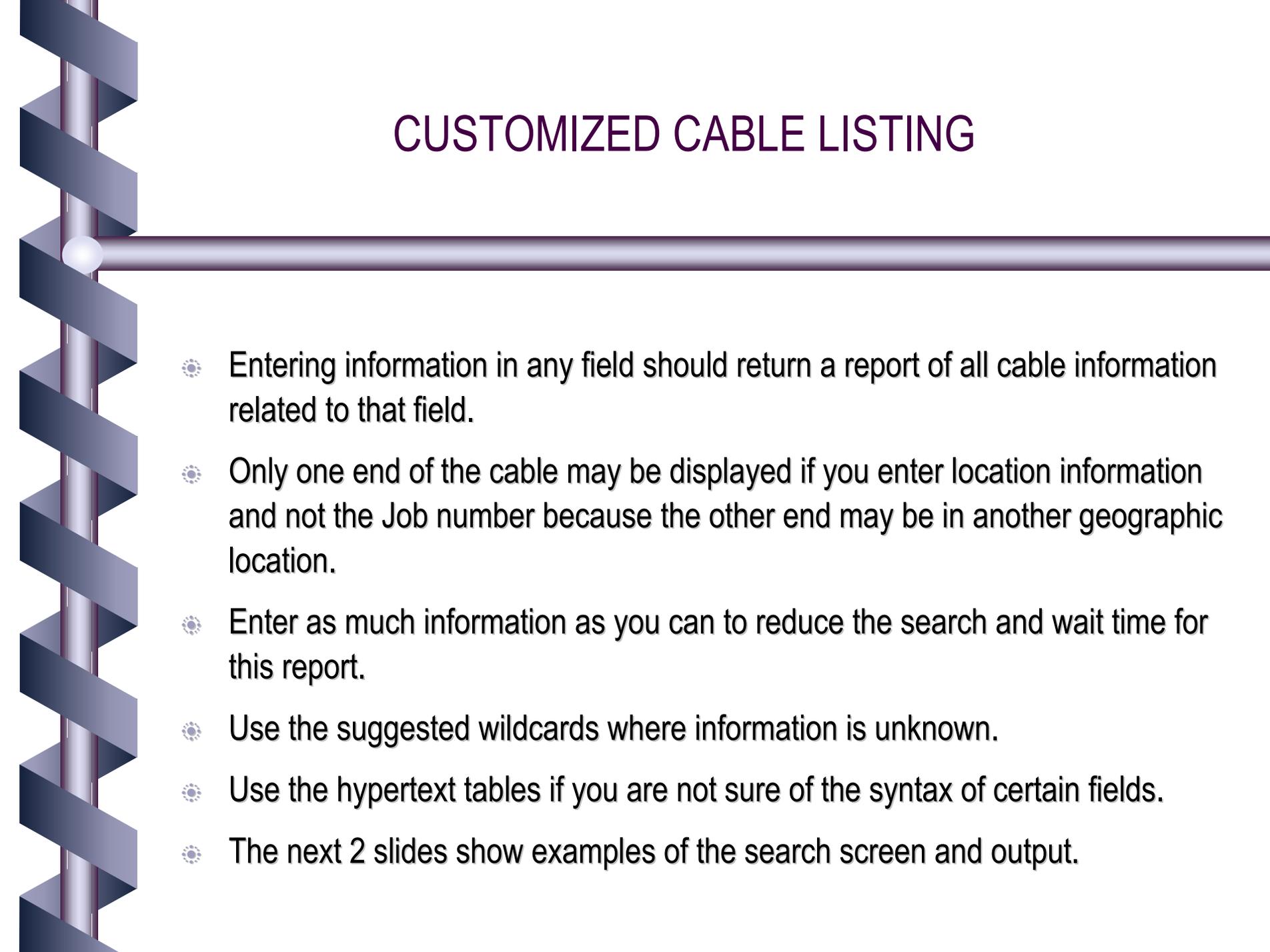
Press the  button. To clear the form, press the  button.

# CABLE LIST FOR A RACK

- The Cable information displayed includes cable number and origin and destination information:

## CABLE LISTING LIST

Cable Number	Location	Rack	Ele	Slot	Connection Number	Pin List	Location	Rack	Ele	Slot	Connection Number	Pin List
LI11716	KA30	02	13	-	J1	OUT	KA30	01	35	-	BC-A	
LI11717	KA30	02	13	-	J2	IN	KG30	C05	21	-	J1	OUT
L304833	KA30	02	21	S02	J2		KA30	01	16	-	J4	
L309966	KA30	02	21	S02	J3		KA30	04	25	-	J1	
L309965	KA30	02	21	S03	J1		KA30	04	27	-	J1	
L304834	KA30	02	21	S04	J1		KA30	01	16	-	J3	
L309126	KA30	02	21	S05	J1	A1/C8	KA30	11	0	-	TBA3	1L/32L



# CUSTOMIZED CABLE LISTING

- Entering information in any field should return a report of all cable information related to that field.
- Only one end of the cable may be displayed if you enter location information and not the Job number because the other end may be in another geographic location.
- Enter as much information as you can to reduce the search and wait time for this report.
- Use the suggested wildcards where information is unknown.
- Use the hypertext tables if you are not sure of the syntax of certain fields.
- The next 2 slides show examples of the search screen and output.

## Customized Cable Listing

Type in any/all of the following fields to produce a custom Cable Report.

Use WILD CARDS : Underscore ( \_ ) to match a single character and percent ( % ) to match zero or more characters

<b>Cable Number:</b>	<input type="text" value="RP25274"/>	(e.g. RP25274, See <a href="#">Cable Number prefix table</a> )
<b>Job Number:</b>	<input type="text"/>	(e.g. RC23, See <a href="#">Job Number table</a> )
<b>Cable Type:</b>	<input type="text"/>	(See <a href="#">Cableplant Notes-Cable types</a> )
<b>Formal Device Name:</b>	<input type="text"/>	(e.g. QUAD:PI00,5920; See <a href="#">System Abbreviation table</a> )
<b>Function:</b>	<input type="text"/>	
<b>Location or Building:</b>	<input type="text"/>	(e.g. R02 or B624, See <a href="#">Location table</a> )
<b>Rack:</b>	<input type="text"/>	
<b>Elevation:</b>	<input type="text"/>	
<b>Slot:</b>	<input type="text"/>	(e.g. S02)
<b>Connector Number:</b>	<input type="text"/>	(e.g. TB02)
<b>Pin:</b>	<input type="text"/>	(e.g. 39C)
<b>Routing:</b>	<input type="text"/>	
<b>Station:</b>	<input type="text"/>	
<b>Drawing Number:</b>	<input type="text"/>	(e.g. ID-340-727-51-C1)

Select the output destination that you want...

Regular Web Browser Table

Tab Delimited File



Press the **Search** button. To clear the form, press the **Clear** button.

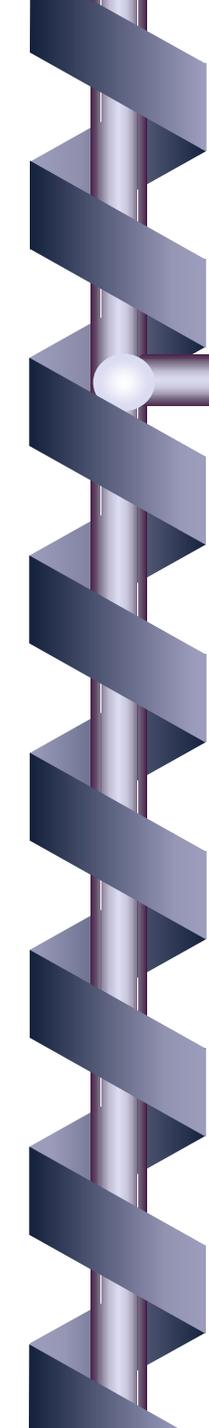
# CUSTOMIZED CABLE LISTING OUTPUT

## CUSTOMIZED CABLE LIST - 10 Dec 2002 12:01:21

2 records matched with Cable Number = 'RP25274'

[Output to Spreadsheet](#)

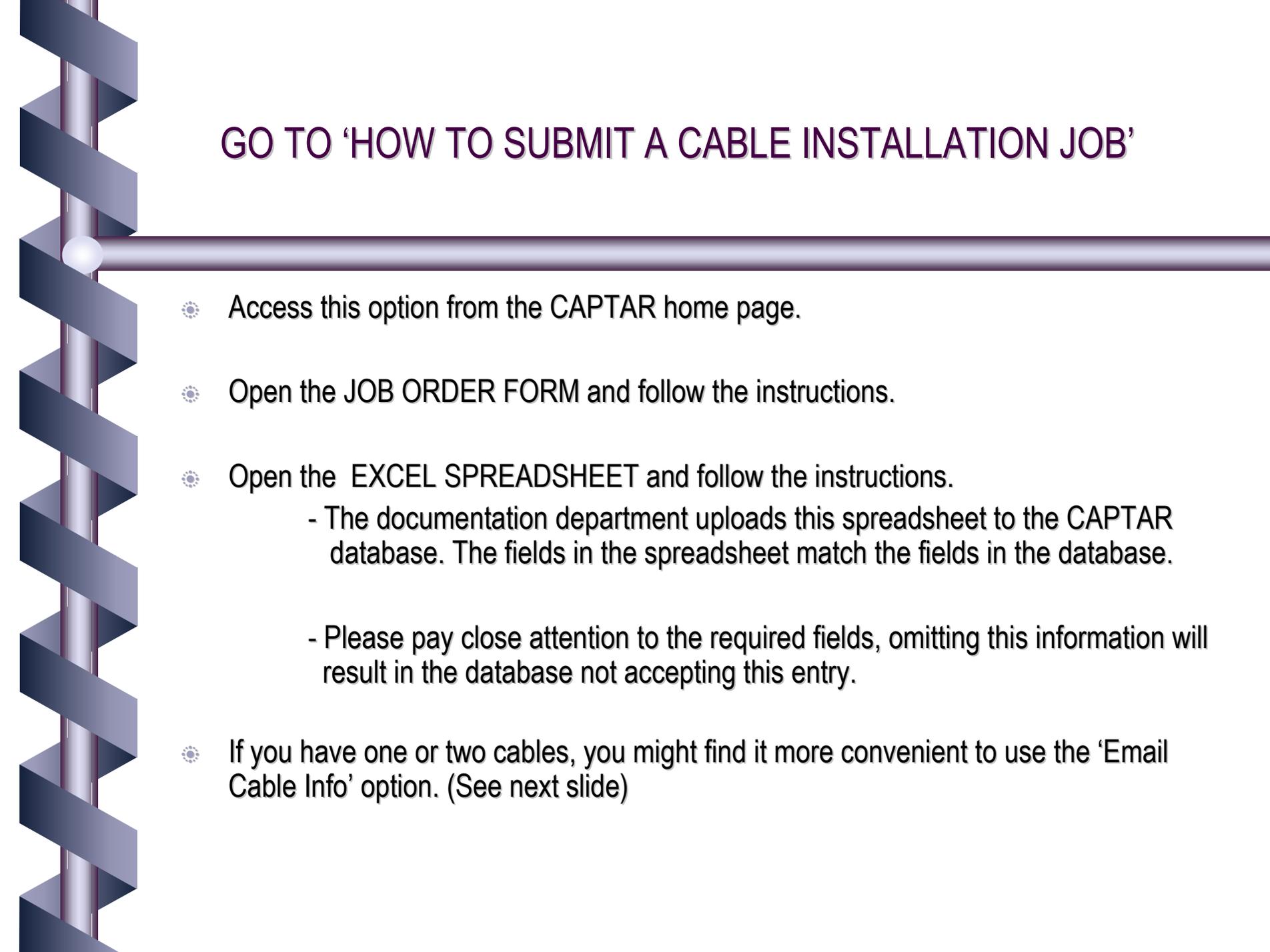
Formal Device Name	Function	Job Number	Cable Type	Cable Number	Drawing Number	Origin/Destination	Station	Termination	Length	Routing
QUAD:PI00,5920	HENIT MAGNET INTLK	RP21-S	2PR200S	RP25274	_____	KG30-P3131-J1-1/2	_____	DB9P	8	_____
						KG30-P3126-J7-A/B	_____	TT12S		



# SUBMITTING A CABLE REQUEST TO CAPTAR

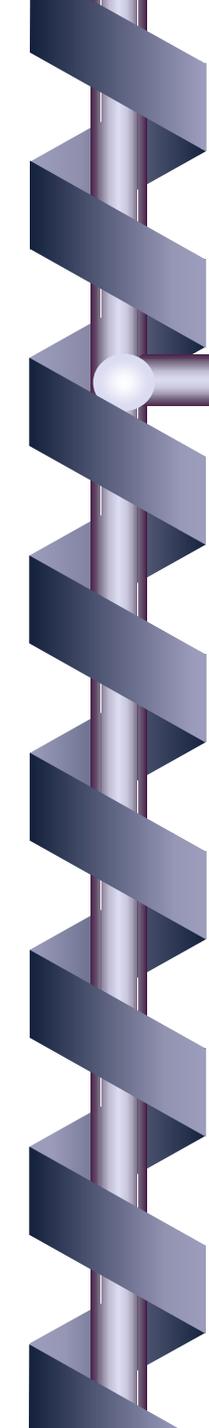
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- Requestors need to provide the Cable installation information to the ESD documentation department to enter into the CAPTAR database. The required documents are:
  - Job Order form
  - Excel spreadsheet or special email form containing cable coding information.
- The ESD Documentation department will provide assistance for filling out these forms to new users.



## GO TO 'HOW TO SUBMIT A CABLE INSTALLATION JOB'

- ⦿ Access this option from the CAPTAR home page.
- ⦿ Open the JOB ORDER FORM and follow the instructions.
- ⦿ Open the EXCEL SPREADSHEET and follow the instructions.
  - The documentation department uploads this spreadsheet to the CAPTAR database. The fields in the spreadsheet match the fields in the database.
  - Please pay close attention to the required fields, omitting this information will result in the database not accepting this entry.
- ⦿ If you have one or two cables, you might find it more convenient to use the 'Email Cable Info' option. (See next slide)

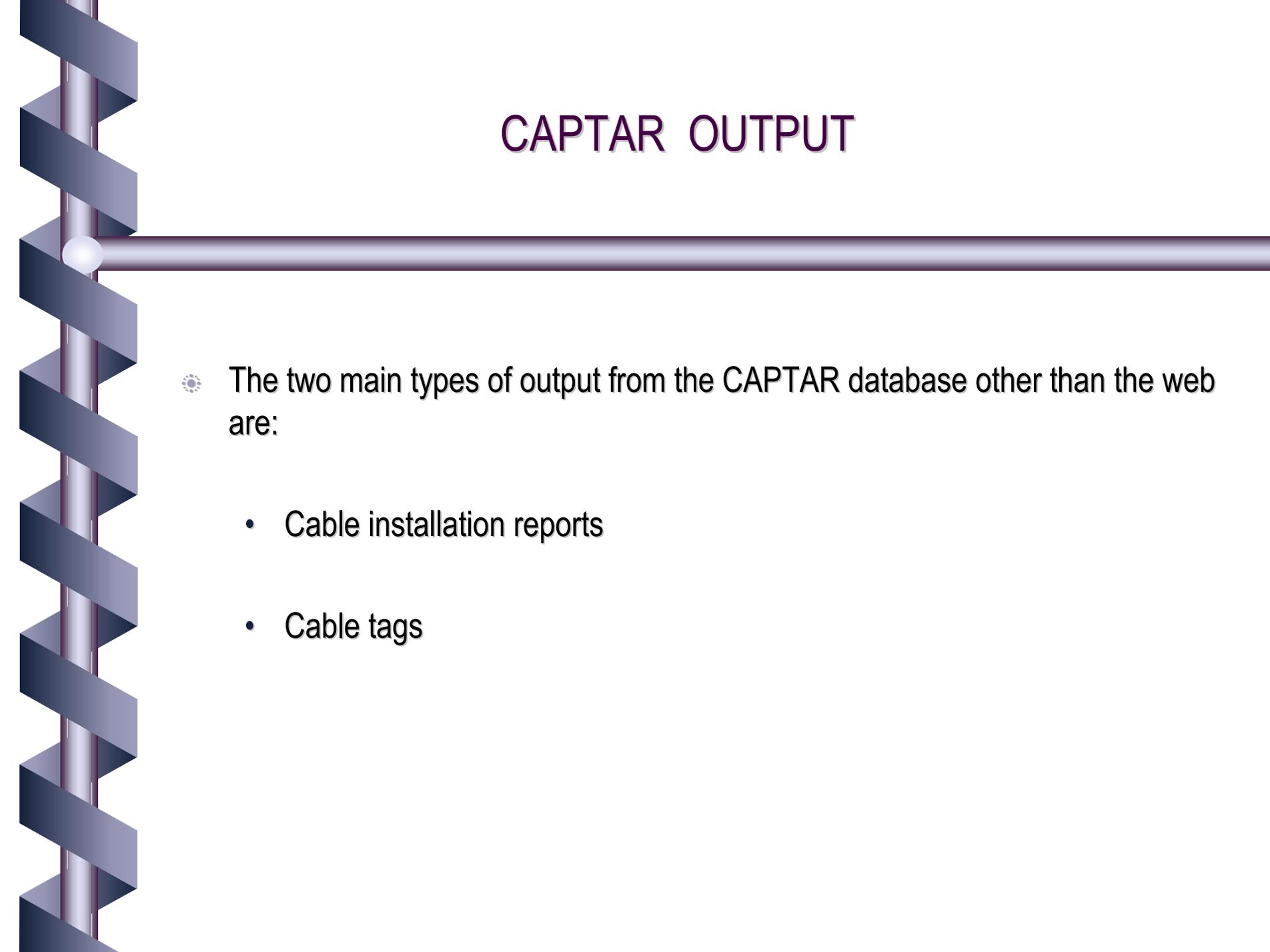


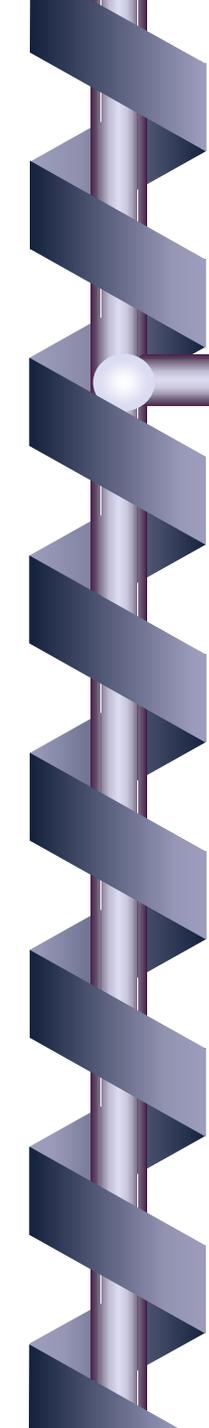
# CABLEPLANT CODING FORM FOR EMAIL

---

- Read instructions and fill out form. Format hints are suggested by the hypertext tables next to certain fields.
- If you have more than one cable, do not clear the information after submitting the first cable, just select cable 2 from the drop down box and edit the information that you entered for cable 1. This is usually easier than entering from scratch. Submit after each entry. If you do not have cable numbers already checked out from the documentation department, they will assign numbers for you.

# CAPTAR OUTPUT

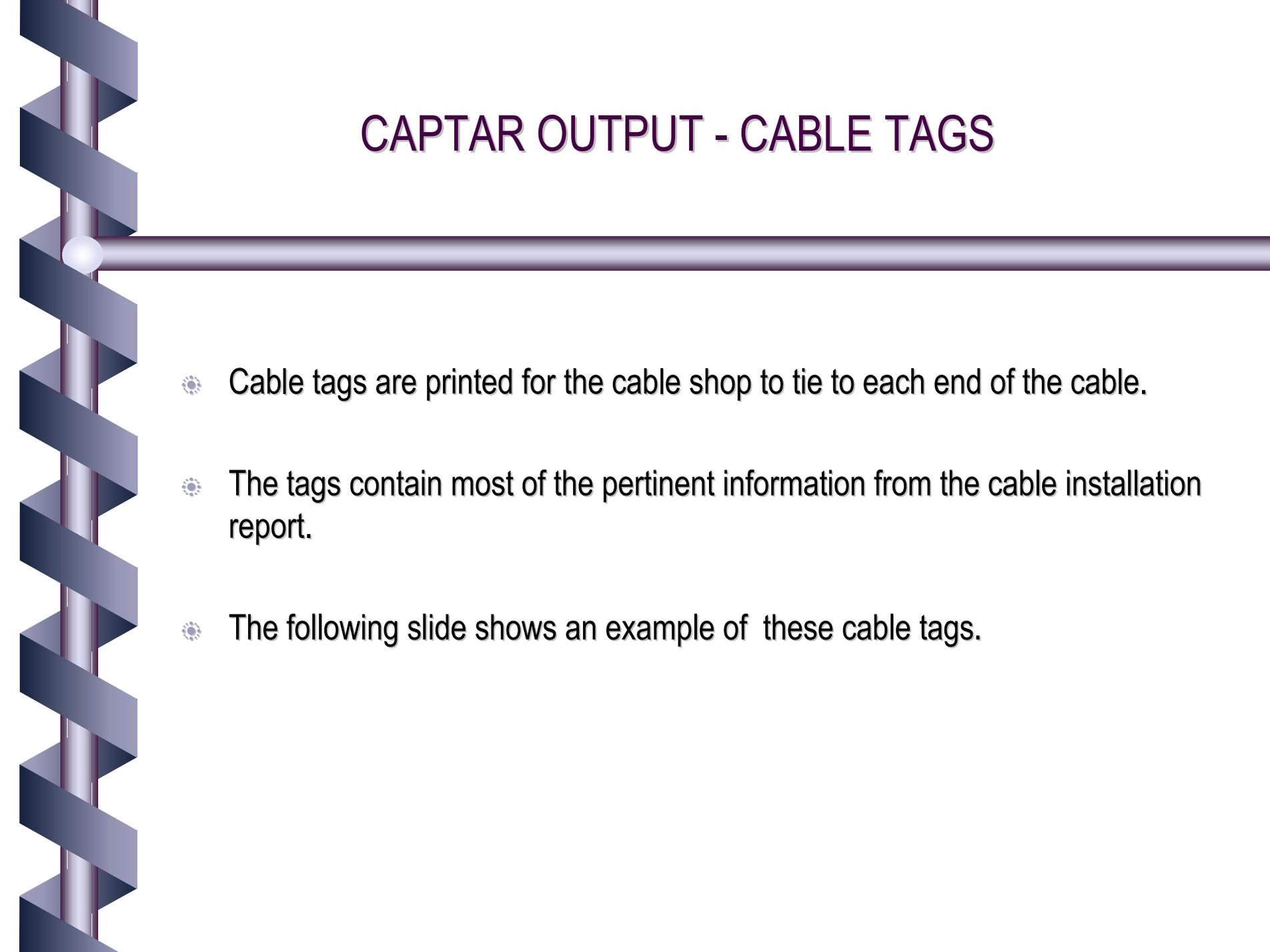
- 
- The two main types of output from the CAPTAR database other than the web are:
    - Cable installation reports
    - Cable tags



# CAPTAR OUTPUT - CABLE INSTALLATION REPORTS

---

- ⦿ Cable installation reports contain all the information submitted to the documentation department by the requestor.
- ⦿ These reports are submitted to the Cable shop along with the cable tags by the documentation department.
- ⦿ A copy of this report is sent to the requestor and a copy is retained by the documentation department.



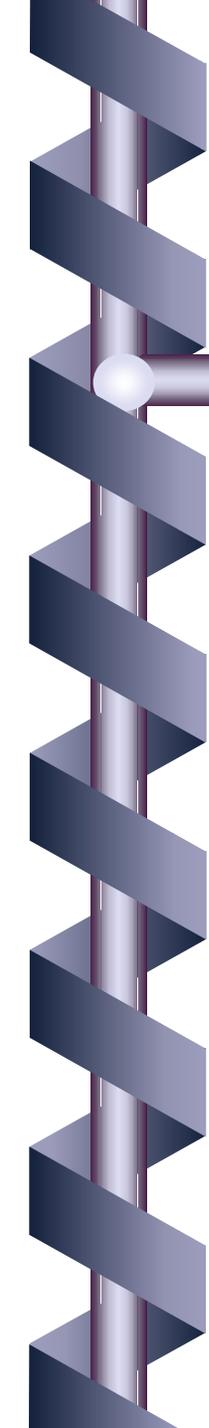
## CAPTAR OUTPUT - CABLE TAGS

- ☼ Cable tags are printed for the cable shop to tie to each end of the cable.
- ☼ The tags contain most of the pertinent information from the cable installation report.
- ☼ The following slide shows an example of these cable tags.

# CAPTAR OUTPUT – CABLE TAGS

SPR02757 WESTSTR\_SIGNAL R1 05-DEC-02  
to: B117-0432-J3  
fr: B132-0432-RM102 J3  
fn: VIDEO

SPR02757 WESTSTR\_SIGNAL R1 05-DEC-02  
to: B132-0432-RM102 J3  
fr: B117-0432-J3  
fn: VIDEO



## CLOSED JOB ORDER PDF FILE SEARCH

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- Search the closed job database .
- Job orders that remain open for whatever reason( not finished, not signed off) are not in this database.
- An example of the search screen is on the next slide.
  - Last and First name refers to the Requestor name.

# CLOSED JOB ORDER PDF FILE SEARCH

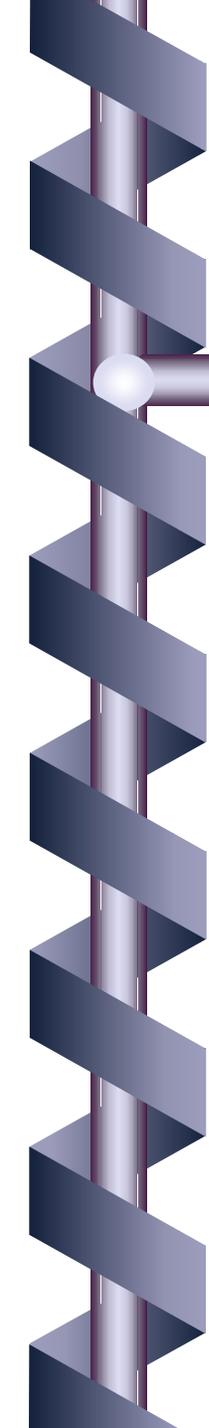
**CAPTAR**

*Job Order Search*

Last Name  First Name  Ext.

Job Order Number  Job Order Title

Charge Number  Month Received  Year Received



# CLOSED JOB ORDER PDF FILE SEARCH

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- ⦿ After clicking the submit button a table will return all the job orders that match the submission criteria.
- ⦿ See next slide for example

# CLOSED JOB ORDER PDF FILE SEARCH

**CAPTAR**

*Job Order Search*

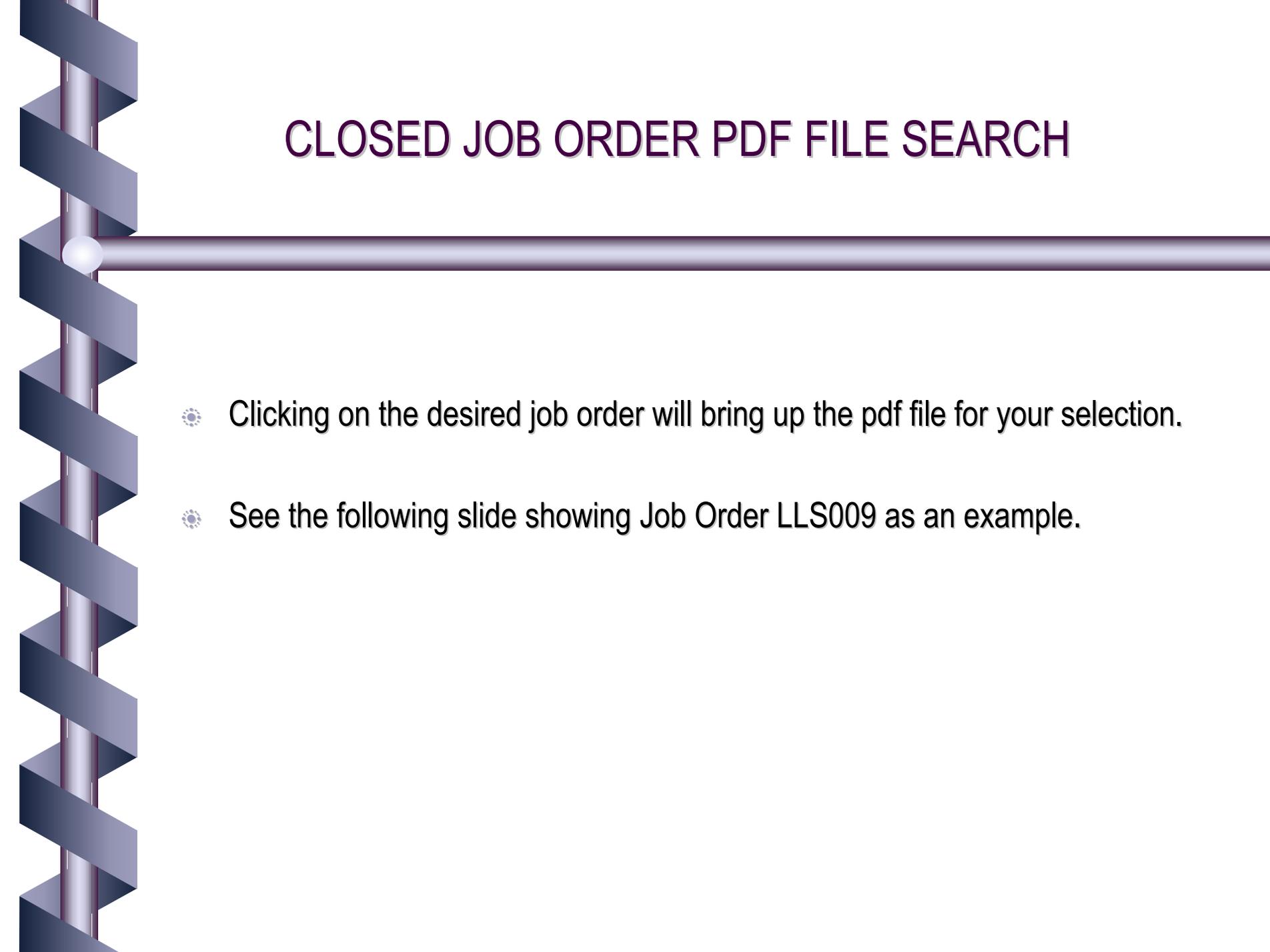
Search

1 through 8 records of 8 records found

Back

Next

Job Order	Job Title	Last Name	First Name	Phone	Charge No	Month Rcvd	Year Rcvd
<a href="#">LLS005</a>	TEST LAB INTERCOM PAGING SYS	SORIA	LORENZO	X2774	12-0812	JUN	2001
<a href="#">LLS006</a>	REMOVE TELEPHONE CABLES IN BLDG-44 ROOMS 207 A/B	SORIA	LORENZO	X2774	12-0812	JUN	2001
<a href="#">LLS007</a>	TWINAX CABLE FABRICATION	SORIA	LORENZO	X2774	18-2050-0	JUL	2001
<a href="#">LLS008</a>	REPLACE PHONE JACK AT FFTB, EXT-5171	SORIA	LORENZO	X2774	12-0527	NOV	2001
<a href="#">LLS009</a>	ELECTRIC CART WARNING SIGNS IN LINAC	SORIA	LORENZO	X2774	12-0186	NOV	2001
<a href="#">LLS010</a>	FAB 6ea. RG-214 cables	SORIA	LORENZO	X2774	57-5709-1	MAR	2002
<a href="#">LLS011</a>	BLDG-443 RADION ANTENNA WORK	SORIA	LORENZO	X2774	57-5709-1	APR	2002
<a href="#">LLS012</a>	FABRICATE 4EA. 535 CABLES	SORIA	LORENZO	X2774	08-8308-0	APR	2002

A decorative vertical bar on the left side of the slide, featuring a dark blue spiral ribbon that winds around a central vertical axis. A horizontal line, matching the ribbon's color, extends from the bar across the top of the slide.

## CLOSED JOB ORDER PDF FILE SEARCH

- ☼ Clicking on the desired job order will bring up the pdf file for your selection.
- ☼ See the following slide showing Job Order LLS009 as an example.

# CLOSED JOB ORDER PDF FILE SEARCH

<http://www.slac.stanford.edu/eprise/cable/captar/blankjob.xls>

CABLE INSTALLATION JOB ORDER						ORIG.#	LL5009
JOB TITLE: ELECTRIC CART WARNING SIGNS IN LINAC					CHARGE NUM: 12-0186		
ORIGINATOR: L.SORIA		ORIG. EXT: 2774	CUSTOMER A.BAKER	CUST.APPR: DWG.NUM:			
INITIAL:	STATUS	CODE	RCVD DATE 11/22/01	RGST DATE ASAP	SHOP QUEUE:	PRIORITY: 2	
APPROVED <i>H.E. FIGUEROA</i>	INSPECTED <i>L. Soria</i>	QUANTITY	HOURS EST	MISC INFO.			

**JOB DESCRIPTION:**

ELECTRIC CART WARNING SIGNS IN LINAC.  
PAINT AND STENCIL A WARNING SIGN ON ALL DOORS ON SOUTH  
SIDE OF KLYSTRON GALLERY SIMILAR TO NORTH SIDE.

PLEASE OBSERVE ALL SAFETY REGULATIONS  
PERSON RESPONSIBLE: