

PREPARATORY OPERATIONS
CABLE TAGS

CONTENTS

1. GENERAL	4. COMPUTER PRINTED CABLE TAGS
1.1 Scope of Section	4.1 Printed Tags
1.2 General Information Pertaining to Arrangement of Tools, Precautions, Verifications, Specifications, Drawings and Figures	5. STORING TAGS
2. EQUIPMENT INFORMATION	5.1 Wire Rings
2.1 General Information	6. REMOVAL OF TAGS
3. CABLE TAGS	6.1 When to Remove
3.1 General Information	
3.2 Preparation of Tags for Cable (Manually)	
3.3 Preparation of Tags for Wire (Manually)	

1. <u>GENERAL</u>	2.12 <u>Fuse Bays</u>
1.1 <u>Scope of Section</u>	2.121 The lowest fuse row involved.
1.11 This section covers the information related to computer generated and installer prepared cable tags. The use, storage and removal of cable tags is also included.	2.13 <u>Distributing Frames, Vertical Side</u>
1.2 <u>General Information Pertaining to Arrangement of Tools, Precautions, Verification, Specifications, and Drawings and Figures</u>	2.131 The lowest terminal strip location served by the cable.
1.21 Refer to Section 1 and 110 of this Handbook for information relating to these items.	2.14 <u>Distributing Frames, Horizontal Side</u>
2. <u>EQUIPMENT INFORMATION</u>	2.141 The first and last terminal strip location served by the cable.
2.1 <u>General Information</u>	<u>NOTE:</u> The above sequence of assignments is based on cables approaching from overhead cable rack. When cabled from below, the equipment location will be expressed in terms of the plate, fuse row or terminal strip level furthest from the point of entry of the cable.
<u>NOTE:</u> Where one cable, or group of cables serves more than one terminal strip, mounting plate, or row of fuses, only one unit of equipment will be shown in the specification.	2.15 Where one cable is spread over two or more switchboard positions or sections, the first and last position or section numbers served by the cable will be shown.
2.11 <u>Relay Racks</u>	3. <u>CABLE TAGS</u>
2.111 When the cable serves two or more relay rack bays, the first and last bay location (Bay Nos.) will be shown in addition to the lowest mounting plate level location involved in each bay.	3.1 <u>General Information</u>
	3.11 SD97-218 Cable Tags for bulk or factory formed cable and wire are computer generated from the associated bulk or factory formed cabling specification "C" section "Installer's Cable Running List." (See FIG 1.) They are adhesive backed and printed in duplicate to be attached to each cable end. (See FIG 2.)

NOTICE - NOT FOR USE OR DISCLOSURE OUTSIDE THE BELL
SYSTEM EXCEPT UNDER WRITTEN AGREEMENT

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 WESTERN ELECTRIC COMPANY INC
 SYSTEMS EQUIPMENT ENGINEERING

INSTALLERS CABLE RUNNING LIST SECTION C

8 - 150

ORDER NO.		SPEC NO.		APPX NO.	REFER ENGR QUES TO	DEPT NO.	A & E SPEC NO.	REFER SPEC QUES TO	DEPT NO.	PAGE	LP				
76004F		003			GL RIPPE	708220	728	EE TOCHIHARA	708212	5					
RUN NO	CKT REF	FT	NO CAS	CODE	CKT NRG. CA NO. UNIQ CA NO.	FROM	CA DES	SF LOC DROP	EQPT LOC & FM INF	TO	LG SCU CA	SF LOC. DROP	EQPT LOC & FM INF	LDS CLASS. SHLD	ROUTE
2-003		-	1	P22		C41		L17	SH 7	C42		L8	SH 1		
3	AC			T32045-21		FIG 22 SW TBL ALM (TSL & 1CT1 LEADS)									
3	BD			T32045-21		FIG 25 SW TBL ALM (TSL & 1CT1 LEADS)									
3-001D		90	1	74A		C34		L17	1-7	HIDF		10	P-49		L2, 1C2, CA HL 2D, 1C2
3-002D		96	1	74A		C35		L17	1-7	HIDF		10	P-49		L2, 1C2, CA HL 2D, 1C2
3-003D		102	1	182A		C36		L17	1, 2, 4, 6, 7	HIDF		10	P-49		L2, 1C2, CA HL 2D, 1C2
3-004D		102	1	74A		C37		L17	1-7	HIDF		10	P-49		L1, 1C2, CA HL 2D, 1C2
3-005C D		110	1	182A		C38		L17	1, 4-7	HIDF		10	P-49		L2, 1C2, CA HL 2D, 1C2
3-006C D		120	1	182A		C39		L16	1-6	HIDF		10	P-49		L2, 1C2, CA HL 2D, 1C2
ORDER NO.		SPEC NO.		APPX NO.	REFER ENGR QUES TO	DEPT NO.	A & E SPEC NO.	REFER SPEC QUES TO	DEPT NO.	PAGE	LP				
76004F		003			GL RIPPE	708220	728	EE TOCHIHARA	708212	5					

FIG. 1 TYPICAL BULK CABLE "INSTALLER'S CABLE RUNNING LIST" (PAR. 3.11)

2

3.111 Information is printed in the tag blocks in the same order that it appears under corresponding headings in the Installer's Cable Running List. When all the information under the column heading cannot be fitted into the corresponding tag block, only an asterisk (*) is printed in this block. An exception to this use of the asterisk is covered in PAR 3.12. Before using printed tags containing asterisks to run cable, the installer shall modify them as follows:

3.112 Refer to the cable specification and run number shown on the tag. Analyze the information shown under the corresponding heading in the cable specification and transfer the required information to the appropriate asterisked block on the cable tag.

3.12 An asterisk in the "FT" block indicates that the cable length for this run will be furnished as an individual item.

3.121 For most jobs it will not be necessary to prepare cable tags for bulk and factory formed cable runs.

3.2 Preparation of Tags for Cable

3.21 SD97-218A Cable Tags may be ordered as a stationary supply item per Handbook 250, Section 0. They are to be used for the occasions when it is necessary to prepare cable tags on the job. These tags are furnished four pair across with an individual perforated snap-out carbon sheet between each tag. Place the tags directly on a firm surface, such as a desk or table top, and fill in the necessary information with a ball point pen.

3.22 Fill in the tag by transferring the information shown in the Installer's Cable Running List for the corresponding run number, to the appropriate blocks on the cable tag.

3.221 On large jobs where there is but one order number, marking the order number on each tag can be omitted. Where there are two or three order numbers, the use of the last two digits of the order numbers may be sufficient for identification purposes.

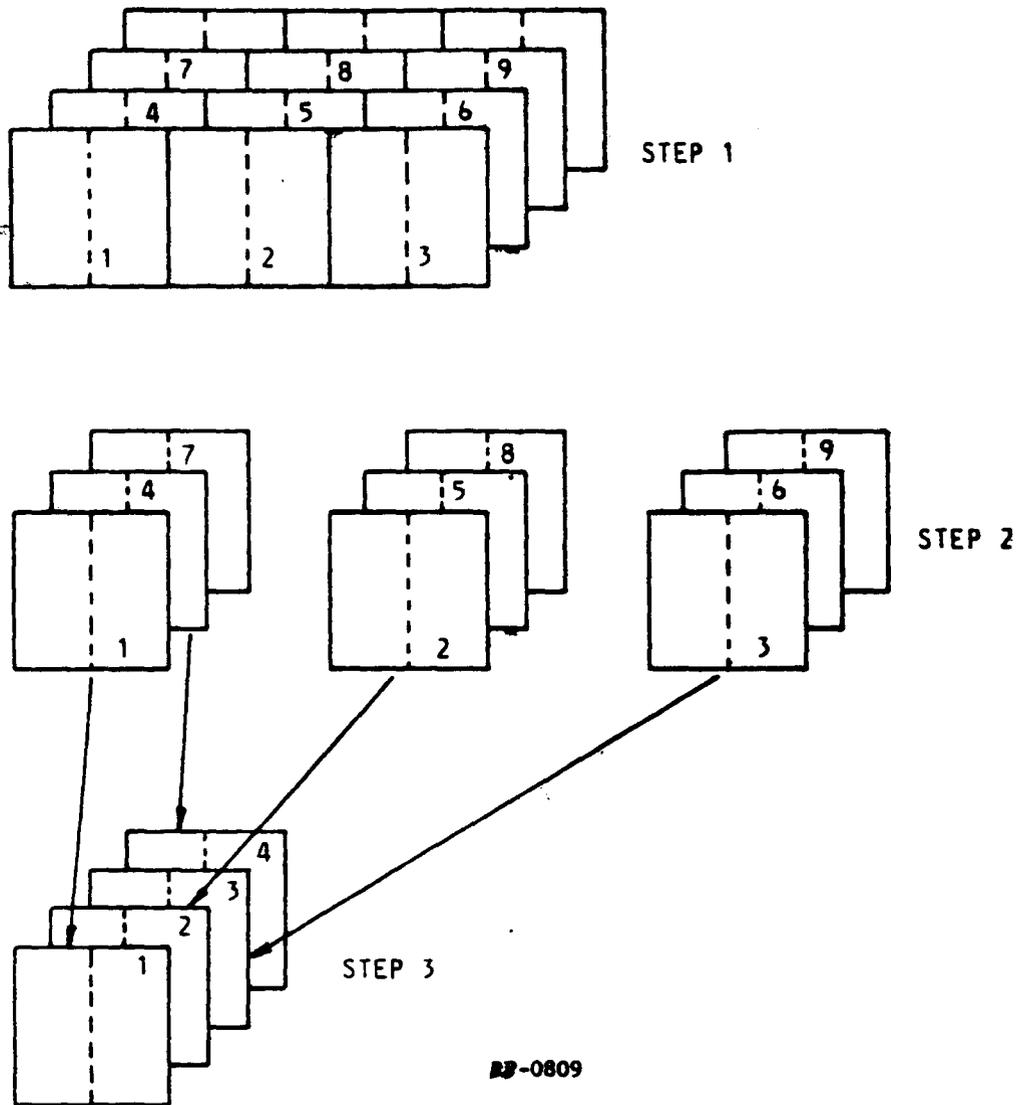
SD97-218 (1-75)				SD97-218 (1-75)			
ORDER NO	SPEC	APPX NO	EOPT SPEC	ORDER NO	SPEC	APPX NO	EOPT SPEC
17152501			574	17152501			574
CA CODE	FT	NO CAS		CA CODE	FT	NO CAS	
262A	198	1		262A	198	1	
RUN NO.	CKT. REF.	CA. NO.		RUN NO.	CKT. REF.	CA. NO.	
6.001		1		6.001		1	
DWG. NO. & FIGS T26030-16 FIG HH				DWG. NO. & FIGS T26030-16 FIG HH			
CKT. NO. CA. NO. UNIQ. CA. NO.				CKT. NO. CA. NO. UNIQ. CA. NO.			
0-9 CA 19				0-9 CA 19			
FROM				FROM			
LL 10-11 VG 08-09				LL 10-11 VG 08-09			
CA. DESIG.		SF. LOC. DROP		CA. DESIG.		SF. LOC. DROP	
A2		R16		A2		R16	
EOPT. LOC. & FM. INFO				EOPT. LOC. & FM. INFO			
LINE SW LL 10/F01A				LINE SW LL 10/F01A			
F				F			
TO				TO			
HMDF				HMDF			
SWF. NO.		SF. LOC. DROP		SWF. NO.		SF. LOC. DROP	
		14				14	
EOPT. LOC. & FM. INFO				EOPT. LOC. & FM. INFO			
F71,70				F71,70			
LDS. CLASS. SHLD.				LDS. CLASS. SHLD.			
MOUNT				MOUNT			
1N, 12, 1B, 13, 1A				1N, 12, 1B, 13, 1A			

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FIG. 2 TYPICAL COMPUTER GENERATED CABLE TAG (PAR 3.11)

3.222 Show the first and last termination of the conductors in cable which serve equipment in different locations in the same frame, rack, or bay. This will permit cutting the cable to its correct length and thereby avoid waste.

NOTE: The use of pencil marks of different colors to designate the responsible group in the job organization will make it easier for particular cables to be identified.



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→ FIG. 3 PROPER SEQUENCE FOR PRE-SORTED CABLE TAGS (PAR. 4.13)

3.223 Indicate on the tag, which side of the frame, bay, or which vertical or shelf on a distributing frame the cable is to be run as shown on the cabling drawings.

3.224 If desired, the page number of the cable specification on which the cable and associated run number is listed may be entered on the cable tag for reference purposes.

3.3 Preparation of Tags for Wire

3.31 Prepare tags for type AM and BH wire in the same manner as for switchboard cables.

4. COMPUTER PRINTED CABLE TAGS

4.1 Printed Tags

4.11 Printed cable tags generated by the computer are shipped to the job at the same time as the associated cabling specifications. The cable tags, which duplicate the information in the Installer's Cable Running List, are provided in the following sequence:

- A. Bulk Cable Tags - Presorted as indicated in PAR 4.12 of this section.
- B. Factory Formed Cable Tags - Provided in Running List sequence.

The installer will receive a "C" section appendix and new cable tags associated with changes to the specification affecting bulk or factory formed cable runs. The installer should take immediate action as soon as an appendix affecting cabling is received. The previous cable tags for runs associated with the change should be discarded and replaced with the new tag in order to prevent unnecessary removal and rerunning of the cable runs.

4.12 Bulk cable tags are presorted in the following sequence:

- A. Order Number
- B. A and E Specification Number (Descending Order).
- C. Cable Class/Shield (Descending order based upon the first character in the field).
- D. Code (Descending Order).
- E. Length (Descending Order).
- F. Cable Number (Ascending Order - If more than one cable is ordered under one run number).

4.13 Recommended procedure for handling presorted cable tags is as follows:

- A. Remove the cable tags from the shipping box intact, taking care not to disturb the sequence.
- B. Take approximately 25 layers at a time and tear apart the pairs of tags so there are three sets of tags in each layer.
- C. Remove the left tag pair from the file, place the middle tag pair behind it, and place the right tag pair behind the middle tag pair. Continue this left to right sequence for all 25 layers (see FIG 3 for a visual illustration). When all tags of the first group are in the proper order, grasp approximately 25 more layers and repeat Steps B and C.

4.14 Grouping and selecting cables for different runs varies with each switching system and each installation. Use the presorted cable tags to group cable runs as needed. Some orders may require further sorting to lay out cable runs.

4.2 Factory Formed Cable

4.21 Factory formed cable will be received by the installer with a shop tag attached. The "unique" cable numbers assigned should be cross-referenced with the "C" Section Installer's Cable Running List." They are listed under column "CKT NBG, CA. NO., UNIQ CA. NO." The associated cable tag listed by Run No. should be attached to the shop formed cable before running.

5. STORING TAGS

5.1 Wire Rings

5.11 A wire ring similar to an oversized key ring made on the job from 16 gauge insulated wire, is a convenient holder for retaining prepared tags.

5.12 For large cable jobs, a job made cable running and tag storing board may be found desirable. This board serves as:

- A. Cable tag filing rack.
- B. A guide for routing desired types of cable over particular runs.
- C. An up-to-date inventory of the amount of cable to the run.

- D. A means of control of cable to be run through cable holes.
- E. A means of segregating wire and cable tags.

5.121 The board may be used for originating, terminating, power or other specifications. Each job or type of specification will govern the size of the board necessary and the information to be shown. The size of the hooks will depend upon the number of tags to be hung on the hooks, and the number of hooks per square on the number of types of cables.

5.122 This board is practical for jobs with one cable planner or for jobs where each group supervisor directs his own cable, and provides a visible cable status record for the various in-charge men or cable crews.

6. REMOVAL OF TAGS

6.1 When to Remove

6.11 Unless otherwise specified and wherever possible, cable tags should be left on cables until all final tests are made and trouble cleared. Remove them prior to final inspection.

→ Indicates new or changed information.

Reason for Reissue:

Add reference to adhesive backed tags.

Engineering Planning Manager
Common Installation and Services