

CABLE CONNECTING DRAWINGS CCED

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1. GENERAL

1.1 Scope of Section

1.11 This section covers a detailed description of the make up and content of CCED drawings. In addition, since these drawings are different in concept a suggested method of using them is offered.

2. FORMAT

2.1 Drawing Size

2.11 The CCED series of drawings will be prepared on a standard 6S size tracing with eight columns.

2.111 The standardization of the size offers the best readability on a reduced basis consistent with the amount of informational space per sheet, the quantity of sheets required and a practical drawing size for installation use.

2.2 Multisheet Series

2.21 A drawing series for a given frame will consist of sheets numbered from 1 on up. Each sheet will be issue controlled separately, (see Paragraph 3.11). Each sheet will contain the drawing number and title.

2.3 Drawing Prefix and Base Number

2.31 The prefix CCED, which denotes a Cable Connecting Equipment Drawing, was selected to provide a common tie between connecting information and the associated frame equipment. The five digit base number of the drawing will be the same as that of the associated method of cabling equipment drawing.

2.4 Tabular Listing of Information

2.41 All cable connecting information on CCED drawings will be in running list form (tabular), as opposed to the present formats (pictorial) of H and ED drawings where color code information is associated with representations of the apparatus. (See Figure 2).

3. CONTENT

3.1 General Information Sheets are numbered 1, 1a, 1b etc. and contain information as listed in the following subparagraphs.

3.11 A Sheet Issue Index table is provided on the first sheet of a drawing series. From this table the issue of any particular sheet may be determined. The issue number of the drawing as a whole is the issue number of sheet number one.

3.12 A Cable and Terminating Apparatus Sheet Locating Table provides a means of instantly locating desired information. See Figure 1.

3.121 The table is arranged with the switchboard cable designations listed vertically on the left hand side and the frame apparatus listed horizontally across the top.

3.122 The intersection box located by the coordinates of a cable designation and a specific piece of apparatus contain a number and a letter. The number is the sheet number and the letter is the sheet column on which the associated connecting information appears.

3.1221 Where a cable designation appears in more than one sheet column, because of an operating condition or option etc., only the first column is listed in the locating table. The installer must determine which of the succeeding adjacent columns he is required to use.

CABLE AND TERMINATING APPARATUS SHEET LOCATING TABLE															
NUMERAL INDICATES SHEET AND LETTER DESIGNATES COLUMN															
CABLES	T.S. B (TERM 000-099)	T.S. B (TERM 100-199)	T.S. B (TERM 200-299)	T.S. B (TERM 300-399)											
BB1	2A		2A	2A											
BB2		2A													
BB3	2A														
BB4	2B	2C	2D	2E											
BC5	2F		2F	2G											

FIGURE 1

3.13 Notes. Engineering and Manufacturing notes will be listed in the general information portion of the drawing. Installers notes or circuit notes will be listed after the connecting information with which they are associated.

3.14 The title of the drawing will appear on the first sheet along with the drawing number, sheet number and total sheets of the series. Succeeding sheets will contain only an abbreviated title, drawing number and sheet number.

3.2 Cable Connecting Information Sheets will be numbered from 2 on up as required and contain information as listed in the following subparagraphs. See Figure 2.

3.21 Sheet Columns. Each sheet contains vertical columns A to H for information locating purposes.

3.22 Column Subheadings

3.221 Binder Section. Cable binders are indicated as BL, O, G etc. Where a cable does not contain a binder no letters or symbol will be used. Where a binder is indicated at the beginning and end of a series of colors all intermediate colors are included in that binder.

3.222 Lead Color. Colors are listed in color code sequence. For "A" type cable a type space separates tracer and binder sections for easy readability and identification.

3.223 Terminal. The terminal column lists the terminating information as it appears on standard drawings or other standards media.

3.224 Option and Note. This column is used to indicate particular information as concerns any lead or cable.

3.225 Functional Designations as listed are not necessarily in an associated sequence. This results from a preference given to terminal and color patterns.

3.23 Heading Information Per Cable. Preceding each listing of color code and functional information is heading information. This information consists of cable designation and cable code, a word description of application and the "other end" cable connecting drawing. If vintages of equipments are involved J-drawing and/or T-drawing information will also be specified.

3.24 Apparatus Terminating Information follows the general heading information and consists of apparatus designation, T-drawing and figure or sheet. Where a cable serves various apparatus locations on a frame the apparatus designation and T-drawing information precedes the affected cable leads. In cases where a cable serves repetitive equipments such as senders etc., the T-drawing information will be listed for the first sender only.

COLUMN A					COLUMN B					COLUMN C				
BDR SECT	LEAD COLOR	TERM	OPTION & NOTE	FUNCT DESIG	BDR SECT	LEAD COLOR	TERM	OPTION & NOTE	FUNCT DESIG	BDR SECT	LEAD COLOR	TERM	OPTION & NOTE	
BB1	265A CA, PER FRAME, TO COMMON CONTROL FRAME, BAY 1 (CCED-94809-10)				BB4	265A CA, PER FRAME, TO COMMON CONTROL FRAME, BAY D, (CCED-94809-10)				0	G1BK	097		
			T.S. B (TERM 000-009)					T.S. B (TERM 000-099)			G2BK	087		
			T-96501-11 SH 32 & 33					T-96501-11 SH 32 & 33			BR1BK	098		
			T-96507-11 SH 32					T-96507-11 SH 32			BR2BK	088		
	BL1W	005		T	BL	BL1W	040		B2		S1BK	099		
	BL2W	004		R		BL2W	030		ONL		S2BK	089		
	01W	002		ST1 OR1		01W	020		LBT 60IPM					
	02W	003		ST OR 10		02W	010		AST1		BL3W	029		
			T.S. B (TERM 200-299)			G1W	041		B4		03W	054		
			T-96504-11 SH 31			G2W	031		AC		G3W	055		
			T-96507-11 SH 51			BR1W	021		RT		BR3W	058		
			T-96565-11 SH 31			BR2W	011		AST		S3W	059		
	G1W	282		STB		S1W	042		B7		BL3R	070		
	G2W	238		STO		S2W	032		FL		03R	071		
	BR1W	284		STF		BL1R	022		ATB		BL3BK	075		
	BR2W	285		TR1		BL2R	023		MJ		03BK	076		
	S1W	291		EV		01R	013		T		G3R	072		
	S2W	293		EX		02R	012		R		BR3R	073		
	BL1R	202		EP		G1R	043		CO	0	S3BK	079		
	01R	287		EU		G2R	033		A0					
			T.S. B (TERM 300-399)			BR1R	044		C1				T.	
			T-96501-11 SH 32			BR2R	034		A1				T.	
			T-96504-11 SH 31			S1R	024		ATB1					
			T-96507-11 SH 51			S2R	025		MJ1	0	BL1Y			
			T-96565-11 SH 31								BL2Y			
	G1R	360		VA		BL1BK	014		TR		01Y			
	BR1R	372		FS		BL2BK	019		120IPM		02Y			
	BR2R	373		FR		01BK	015		MN		G1Y			
	S1R	359		TBL		02BK	016		G		G2Y			
	S2R	374		FT		G1BK	045		C2		BR1Y			
	BL1BK	356		ANA		G2BK	035		A2		BR2			
	BL2BK	358		ANB		BR1BK	046		C4		S*			
			UNASSIGNED LEADS:			BR2BK	036		A4					
			BL2R, 02R, G2R, 01BK, 02BK			S1BK	Q26		TA6					
						S2BK	027		TB6					
						BL1Y	017		B1					
						BL2Y	007		CST					
						01Y	018		CO-A					
						02Y	006		CST1					
						G1Y	047		C7					
						G2Y	037		A7					
						BR1Y	048		DC					
						BR2Y	038							
						S1Y	009							
						S2Y	008							
					BL	S3Y	020							
	DK	186		+130V(B)										
	R-BK	187		+130V(A)										

FIGURE 2

3.25 Unassigned leads are listed at the end of each cable, where applicable. This information includes the total number of unassigned leads and the specific leads per binder.

3.26 Pictorial Information. A sheet of each CCED series will contain pictorial representations of apparatus for which terminal numbering or terminal designation is not specified or normally committed to memory. Apparatus in this category would include relays, complex keys, switches, selectors etc.

#### 4. SUGGESTED USAGE CONSIDERATIONS

##### 4.1 Selection of Proper Information

4.11 From the cable tag information of a selected cable determine the cable designation. Then, using the Cable Terminating and Apparatus Locating Table find the sheet number and column on which that cable designation appears.

4.111 Where separate cables with similar cable designations are listed (See Paragraph 3.1221), selection of the proper connecting information is made by matching cable tag information with cable heading information or apparatus terminating information.

##### 4.2 Fanning

4.21 A fanned cable may require identification when that cable is fanned through the same throat, fanning holes of a terminal strip or at stitches or breakouts with other cables. The method of identification of the cable or conductors should take into account the skinning operation which could remove that identification.

##### 4.3 Connecting

4.31 Where more than one cable terminates at apparatus per the conditions stated in Paragraph 4.21 consideration should be given to connecting on a per cable basis rather than on an apparatus basis.

→ Arrowed lines indicate new or changed information.

Manager, Engineering Practices

#### Reason for Reissue:

- (1) Paragraph 2.11 changed to correct size of CCED'S.
- (2) Change of Section Number.

Replaces Section 8 dated 4-19-62.