



Western Power

Western Power Corporation
Networks Business Unit
System Optimisation Branch

SUBDIVISION DESIGN GUIDELINE - NUMBER 01 (Revision 1, 27/10/2005)

Guideline for ordering cable end caps and working end pillars

Cable end caps (CN73) are to be ordered when:

- Cables, both HV and LV laid in the ground for future use (working ends).
- LV cables including 25mm service cables to be terminated into pillars.
- LV cables to be terminated into the transformer.
- HV cables to be terminated into switchgear.

Working end pillars (LU_W/END) are to be ordered when:

- Cables (HV & LV) not being terminated as part of the stage.

Note:

- A maximum of 2 LV cables can be installed into a working end pillar.
- A combination of 1x LV cable and 1x 35mm HV cable can be installed into a working end pillar.
- All 185mm and 240mm HV cables will require a separate working end pillar.
- Developers must paint the cap of all working end pillars with white paint.

Preferred procedures for editing a text file to include CUs not included in Microstation or the DQM interface:

- 1) Open the txt file created as a Word document.
- 2) Click on the show/hide button located on the standard toolbar. *(If this button is not shown on the toolbar it can be accessed through, TOOLS, CUSTOMISE then tick the STANDARD box. By clicking onto the show/hide button the text alignment and spacing for the page layout will be shown.)*
- 3) Manually type in the new compatible units making certain the page layout and spacing is followed.

(Note: This same method could also be used to edit a txt file in the case of a revision under construction. It makes it possible to include negative values as a part of these revisions. ie: equipment to be sent back to stores.)

The table below shows the appropriate codes to enter for the working ends and end caps:

CU	Description	Stock Number
CN73_240	End cap heat shrink 240 HV cable	FE0023
CN73_35/185	End cap heat shrink 35 to 185 HV cable	FE0021
CN73_LVMAINS	End cap heat shrink 120 to 240 LV mains cable	CJ0051
CN73_LV25	End cap heat shrink 25 3 core Service cable	FE0021
LU10_W/END	Mini pillar used for working end (Cap must be painted white by developers)	FB0059 FE0034 FE0055 FE0070

See the Appendix 1 & 2 of this document for examples of an unedited and edited txt file. In the edited txt file 2x CN73_240, 3x CN73_35/185, 4x CN73_LVMAINS and 5x LU10_W/END have been included.

Document History

Date Issued	Description	Revision
18/02/2004	Original Issue	-
27/10/2005	Updated for release on website. Aesthetic changes made, such as logo resized, font and formatting.	1

Appendix 1- unedited.txt

```

;
; This file was produced: Wed Jan 14 09:52:31 2004
; DQM Program           Rev 4.0.00.13 Date 05/03/2002
; The Following Control files were active:
; DQM                   Rev 4.0.00.12 Date 20/02/2002
; SL-DEC                Rev 4.0.00.07 Date 01/03/2002
; SL-DEC-VALID         Rev 4.0.00.04 Date 15/02/2002
; HV-CU                 Rev 4.0.00.10 Date 15/02/2002
; LV-CU                 Rev 4.0.00.05 Date 15/02/2002
; UTILITIES             Rev 4.0.00.07 Date 05/03/2002
; CONDUCTORS           Rev 4.0.00.03 Date 15/02/2002
; SL-STD                Rev 4.0.00.03 Date 15/02/2002
; EXISITING-CU         Rev 4.0.00.04 Date 15/02/2001
;
;

```

```

;
;
0      0  0  CN40           0  0           0      9
0      0  0  CN41           0  0           0     15
0      0  0  CN42           0  0           0      4
0      0  0  CN43           0  0           0      6
0      0  0  CN44           0  0           0    108
0      0  0  CN45           0  0           0    103
0      0  0  CN46           0  0           0     65
0      0  0  CN48           0  0           0    163
0      0  0  CN49           0  0           0     24
0      0  0  LU2            0  0           0      2
0      0  0  LU10           0  0           0      9
0      0  0  LU11           0  0           0      1
0      0  0  CN54           0  0           0     15
185    0  0  HU22_M185      0  0           0      1
0     315  0  HU61_M315/22  22  0           0      1
0      0  0  SL9_150        0  0           150     7
0      0  0  CN61_125      0  0           0      1
0      0  0  LU53          0  0           0      1

```

Appendix 2 - edited.txt

```

;
; This file was produced: Wed Jan 14 09:52:31 2004
; DQM Program          Rev 4.0.00.13 Date 05/03/2002
; The Following Control files were active:
; DQM                  Rev 4.0.00.12 Date 20/02/2002
; SL-DEC               Rev 4.0.00.07 Date 01/03/2002
; SL-DEC-VALID        Rev 4.0.00.04 Date 15/02/2002
; HV-CU               Rev 4.0.00.10 Date 15/02/2002
; LV-CU               Rev 4.0.00.05 Date 15/02/2002
; UTILITIES           Rev 4.0.00.07 Date 05/03/2002
; CONDUCTORS          Rev 4.0.00.03 Date 15/02/2002
; SL-STD              Rev 4.0.00.03 Date 15/02/2002
; EXISITING-CU        Rev 4.0.00.04 Date 15/02/2001
;
;

```

```

;
0      0  0  CN40          0  0          0      9
0      0  0  CN41          0  0          0     15
0      0  0  CN42          0  0          0      4
0      0  0  CN43          0  0          0      6
0      0  0  CN44          0  0          0    108
0      0  0  CN45          0  0          0    103
0      0  0  CN46          0  0          0     65
0      0  0  CN48          0  0          0    163
0      0  0  CN49          0  0          0     24
0      0  0  LU2           0  0          0      2
0      0  0  LU10          0  0          0      9
0      0  0  LU11          0  0          0      1
0      0  0  CN54          0  0          0     15
185    0  0  HU22_M185     0  0          0      1
0      315 0  HU61_M315/22 22  0          0      1
0      0  0  SL9_150       0  0          150     7
0      0  0  CN61_125      0  0          0      1
0      0  0  LU53          0  0          0      1
0      0  0  CN73_240      0  0          0      2
0      0  0  CN73_35/185   0  0          0      3
0      0  0  CN73_LVMAINS  0  0          0      4
0      0  0  LU10_W/END    0  0          0      5

```