## Specifications for

Cable Harnesses for the NOvA Experiment
(University of Virginia)
-Length and Labeling

| $\#$ | Length in cm | Cable labels with scheme SD | Cable labels with scheme SU |
| :---: | :---: | :---: | :---: |
| 1 | 112.0 | SD1 | SU1 |
| 2 | 117.0 | SD2 | SU2 |
| 3 | 126.0 | SD3 | SU3 |
| 4 | 139.3 | SD4 | SU4 |
| 5 | 152.6 | SD5 | SU5 |
| 6 | 165.9 | SD6 | SU6 |
| 7 | 179.2 | SD7 | SU7 |
| 8 | 192.5 | SD8 | SU8 |
| 9 | 205.8 | SD9 | SU9 |
| 10 | 219.1 | SD10 | SU10 |
| 11 | 232.4 | SD11 | SU11 |
| 12 | 245.7 | SD12 | SU12 |
| 13 | 259.0 | SD13 | SU13 |
| 14 | 272.3 | SD14 | SU14 |
| 15 | 285.6 | SD15 | SU15 |
| 16 | 298.9 | SD16 | SU16 |

-Number of cable harnesses
6 cable harnesses with label scheme SD
6 cable harnesses with label scheme SU
-Arrangements of cables and orientation of connectors

-Length and Labeling

| $\#$ | Length in cm | Cable labels with scheme LD | Cable labels with scheme LU |
| :---: | :---: | :---: | :---: |
| 1 | 184.0 | LD1 | LU1 |
| 2 | 188.0 | LD2 | LU2 |
| 3 | 201.3 | LD3 | LU3 |
| 4 | 214.6 | LD4 | LU4 |
| 5 | 227.9 | LD5 | LU5 |
| 6 | 241.2 | LD6 | LU6 |
| 7 | 254.5 | LD7 | LU7 |
| 8 | 267.8 | LD8 | LU8 |
| 9 | 281.1 | LD9 | LU9 |
| 10 | 294.4 | LD10 | LU10 |
| 11 | 307.7 | LD11 | LU11 |
| 12 | 321.0 | LD12 | LU12 |
| 13 | 334.3 | LD13 | LU13 |
| 14 | 347.6 | LD14 | LU14 |
| 15 | 360.9 | LD15 | LU15 |
| 16 | 374.2 | LD16 | LU16 |

-Number of cable harnesses
9 cable harnesses with label scheme LD
9 cable harnesses with label scheme LU

-Positions of cable ties
0.45 m : small ties around bundles $1,2,3,4$, and one big tie around bundles $1,2,3,4$
0.90 m : small ties around bundles $1,2,3,4$, and one big tie around bundles $1,2,3,4$
1.35 m : small ties around bundles $2,3,4$
1.80 m : small ties around bundles 3,4
2.15 m : small tie around bundle 4

Color scheme for pins on both cable ends


## Material supplied by the University of Virginia.

-6 conductor cables (Belden 27600A):
5000ft (3859.9ft required for all 30 cable harnesses)
-6 pin connectors (Tyco 172168-1):
907 (960 required for all 30 cable harnesses)
we will send more
-sample harnesses of type S and type L

