

The Data in files:

Primary\_55m\_Channel\_625

ANEXT\_55m\_Channel\_Near\_End

ANEXT\_55m\_Channel\_Far\_End

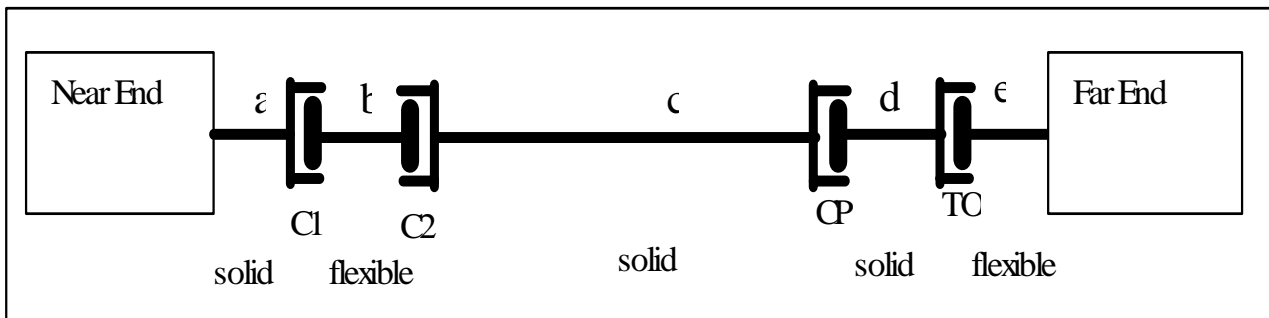
AFEXT\_55m\_Channel\_Near\_End

AFEXT\_55m\_Channel\_Far\_End

Consists of swept frequency measurements of the channel topology shown below where  $a=2\text{m}$ ,  $b=1.2\text{m}$ ,  $c=40\text{m}$ ,  $d=10\text{m}$ ,  $e=2\text{m}$  for a total channel length of 55meters.

6 channels and all inter-coupling between the 6 channels were measured. The connectors C1 and C2 are patch panel modules (6 port) ports numbered 1-6 and the connectors are side-by-side. The cables c and d are Category 6 bundled cable with 6 four pair sub-units. The connectors CP and TC are individual outlet jacks fitted into panels such that the connectors are side by side as in C1 and C2. The cables at b and e are stranded patch cords that are not bundled together. The cable a is solid conductor cable that is not bundled together. The adjacent connectors at each location are connected to adjacent cables within the bundle (c and e). This should be representative of a worst case configuration as would be seen in a data center configuration where the inputs and outputs go to the same locations.

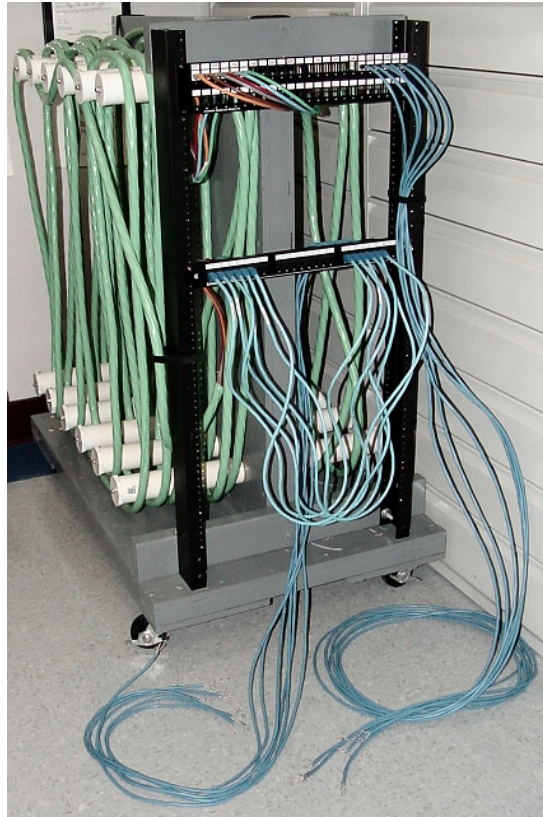
The connectors and cabling are verified compliant to TIA 568B Cat6 requirements and ISO Class E requirements.



In each spread sheet, the tab designations refer to cable ports which represent 1 four pair group or channel. Thus 1n-2n designates port 1 to port 2 measurements where both are at the near end as shown above. The data would represent Near end crosstalk and ANEXT results along with return loss results. Within the sheet, each column is represented by the S-parameter port, which represents one pair numbered according to TIA T568-B convention. Thus S12 represents the S12 measurement between pairs 1 and 2 within a four pair group. S 15 represents the S12 measurement between pair 1 of port 1 and pair 1 of port 2. Since two four pair groups are measured in each sheet, the measurements span from S11 to S88, both of which represent return loss measurement.

The Primary\_55m\_channel spreadsheet covers the measurements of each individual channel where the port designation is 1n-1f, 2n-2f, etc. In this case, S15 represents insertion loss for each pair and so on.

Photo of test configuration



Detail

