Assignment 1

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**Part 1- Determine Cable Requirements**

Description

In this structured cabling , we searched a lot of cable such as, cable cat5, cat6, cat6A, cat7 and many more..However, we found cable cat6A the most appropriate cable.

Observation

Cable cat6A :

Shortest cable run : 90m

Longest cable run : 100m

Difference between them is : 10m

Now, by multiplying 60% to the difference of shortest cable run ,

i.e. 60% of 10m = 6m

Now, by adding the difference value to shortest run to get average length for budgeting purpose

i.e. 90m + 6m = 96m

The product chosen is cable cat6A .

Cat6A cabling system is used since long , it is popular for data center and other applications. It is used for long term planning for work station areas and wireless access point.

<https://www.panduit.com/en/products/copper-systems/bulk-copper-cable/enterprise-data-center-copper-cable/pup6ahd04bu-g.html?utm_medium=search-paid&utm_source=google&utm_campaign=8256-enterprise-paid&utm_content=varimatrixhd&gclid=CjwKCAjw2P-KBhByEiwADBYWCnGyesYD_OaiEhDTnKpXXWm31WyF9GZPspOi-Nqm9RmAi5ZJbRDKAhoCGz0QAvD_BwE>

Reflection

As per the area of the office , we found cable cat6A the most appropriate one as compare to others thus, we determine the longest cable run as 100m and the shortest run as 90m.

Now as per the area to find average length for budgeting purpose we did the difference between the shortest run and the longest run. For that we multiplied the difference by 60% to the shortest run.