# Office of Technology Services

# Structured Cabling System Installation Checklist

Ccc

Project Details Checklist Date

Client Name Checklist Filled by

Contractor Name System Integrator

 Copper  Total Points Category 3  Category 6  Category 6A  Category 7 

 Installation

 Details T568A  T568B 

 Fiber  Total Points Singlemode  Multimode OM2 OM3 OM4 

## No Description Check

## A Installation Overview  

1. Telecommunications room is placed as close as possible to the center of the floor 
2. If the floor area is greater than 1000 m2 (10,763 ft.2), or if the distance to the work area exceeds 300 feet, additional telecommunications room per floor has been used
3. Telecommunications room has not been used to place the electrical equipment  
4. A minimum of two telecommunication outlets has been installed in each work area 
5. Cables are not laying directly on ceiling tiles, Cable Trays and Ceiling Pathways have been used to avoid sagging  
6. Different pathways are used for structured cabling and electrical wiring  
7. Estimated pathway fill capacity is less than 40%  
8. UTP Cable has not been run over fluorescent lights (this will cause EMI) 
9. Conduits are no longer than 100 feet, with two or fewer 90 degree bends between pulling points  
10. Cable bundles are tied loosely and are not stapled  

## B Twisted Pair Cable Terminations

1. Cable, Patch Cords, Keystone Jacks, Patch Panels used belong to the same performance category  
2. Bend Radius of not less than 4 times the cable diameter is maintained for UTP Cable  
3. Bend Radius of not less than 8 times the cable diameter is maintained for Shielded Twisted Pair Cable  
4. Bend Radius of not less than 10 times the cable diameter is maintained for multi-pair Cable  
5. Pulling tension to pull the cable used did not exceed 110 N (25 lb/ft.).  

(Pulling too hard untwists the pairs, and degrades performance)

1. Cable twists are maintained, and are not distorted in the entire cable link  
2. Work area outlets such as face plates and floor brackets are installed right side up  
3. Total length of horizontal UTP cable link has not exceeded 90 meters (295.3 ft.)  
4. The Patch Cord from the telecommunications outlet to the workstation equipment is no more than 5 meters  
5. When terminating the Keystone Jack or Patch panel, pair twists to within 13 mm (0.5 in.) from the point of termination  
6. has been maintained and outer jackets remain up to edge of connecting blocks.
7. When terminating the Keystone Jack at work area outlets a 12 inches of slack cable has been left behind wall  outlets for possible future re-terminations.
8. The strain relief caps of the Keystone Jacks are seated securely on top of the IDC  
9. There is only one consolidation point to any horizontal link  
10. In 24 Port Patch Panel Terminations, cables are routed such that 12 cables are terminated on the left side of the  
11. panel and 12 cables are terminated on the right side of the panel.  
12. In Patch Panels the cables are routed using cable manger to avoid strain on the cable  

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