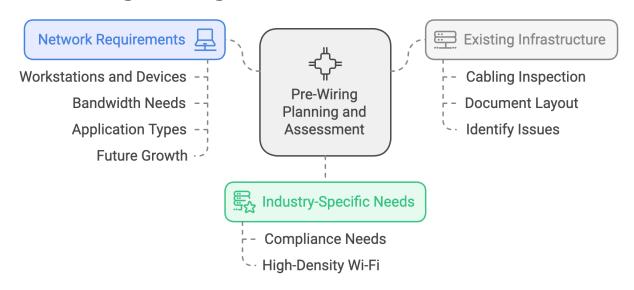
Office Re-Wiring Network Cabling Checklist

1. Pre-Wiring Planning and Assessment



Determine Network Requirements:

Ш	Confirm	the	number	of	workstation	s, (devices,	and	bandwidth	needed
	for each									

- ☐ Review the types of applications used (e.g., video conferencing, cloud services) to ensure sufficient bandwidth.
- ☐ Plan for future growth: Will the office expand in the coming years? Factor in additional workstations or network needs.

Review Existing Infrastructure:

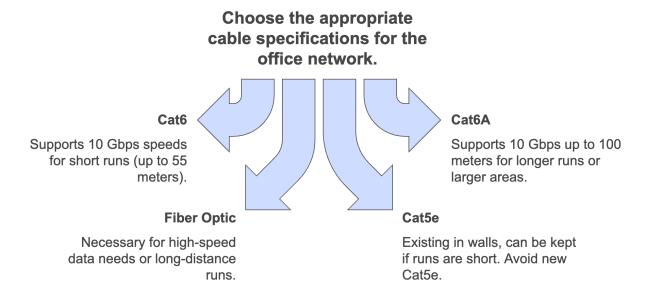
Inspect	current	cabling	for	wear	or	damage.	Is	it fund	ctional	or
outdate	d?									

☐ Document the current cable layout and network routes, noting any issues (e.g., bottlenecks, poor organization).

Discuss Industry-Specific Needs:

☐ Identify special considerations, such as compliance needs (e.g., healthcare data privacy) or high-density Wi-Fi for specific areas like conference rooms.

2. Cable Selection and Specifications



Decide on Cable Category:

Confirm using Cat6 for most office connections to ensure 10 Gbps
speeds for shorter runs (up to 55 meters).
Discuss using Cat6A for longer cable runs or larger areas, as it
supports 10 Gbps up to 100 meters.
Review if fiber optic is necessary for high-speed data needs or
long-distance runs between floors or departments.

Check for Existing Cat5e:

☐ If Cat5e is already in the walls and the runs are short, decide whether to keep it or upgrade to Cat6. Avoid running new Cat5e.

Choose the Right Cable Jacket:

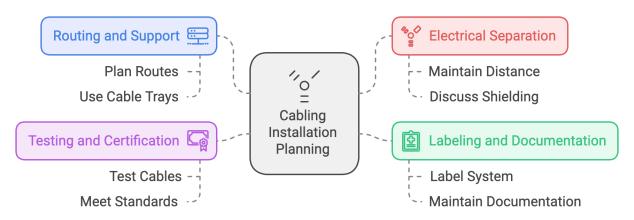
Confirm whether riser cables are appropriate for vertical runs between
floors.
Use Plenum-rated cables for air circulation spaces (compliance with
fire safety regulations).
Plan for Outdoor-rated cables if external cabling is required.

☐ Determine if **Direct Burial** cables are needed for underground installations.

Evaluate Shielding Requirements:

- ☐ Assess whether the installation requires **shielded cables** (STP) to prevent electromagnetic interference (EMI), especially near power sources or heavy machinery.
- ☐ Confirm using **unshielded cables** (UTP) for typical office environments unless EMI is a concern.

3. Installation Planning with Wiring Manager



Route and Support Cables Properly:

- ☐ Plan routes with the wiring manager to avoid sharp bends and minimize cable strain.
- ☐ Confirm using cable trays or racks to keep cables organized and off the floor, reducing the risk of damage.

Maintain Electrical Separation:

- ☐ Ensure data cables are kept at least 12 inches from electrical wiring to prevent interference.
- ☐ Discuss shielding options if running data and electrical cables close together cannot be avoided.

Label and Document Cabling:

 Plan a clear labeling system for all cables and connect Confirm with the wiring manager that all cabling docu maintained and accessible for future maintenance. 	•
Test and Certify Cabling Installation:	
 Agree to test all network cables post-installation using verify connection quality. Ensure all cables meet industry standards for certifica approval. 	

4. Security and Infrastructure Considerations

Securing Critical Infrastructure



Securing Critical Infrastructure:

Lock network closets and restrict physical	access to key cabling areas.
Install tamper-evident enclosures around	critical network equipment to
protect against unauthorized access.	

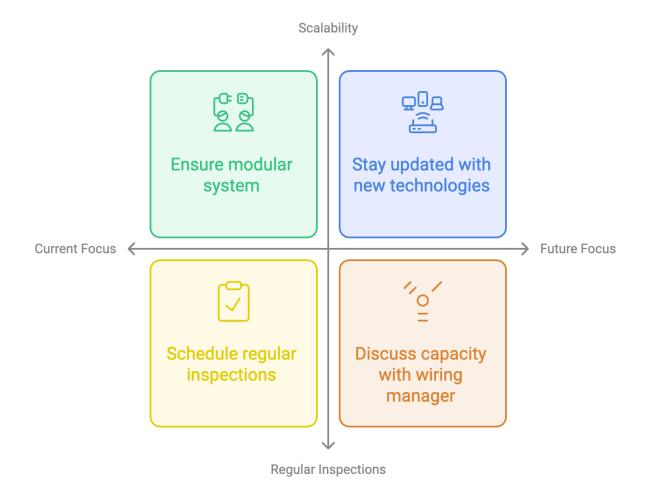
Physical Security Measures:

Discuss installing surveillance cameras in sens	itive network areas,
such as server rooms.	
Implement access control systems (e.g., keyca	ards, biometric scanners)

to secure network and server equipment rooms.

5. Post-Installation Maintenance and Scalability

Post-Installation Network Maintenance



Regular Inspections and Upkeep:

☐ Schedule regular inspections with your team to check for loose connections, damaged cables, or environmental issues like excessive heat.

Scalability and Future Growth:

☐ Ensure the system is modular and can easily be expanded as the office grows. Discuss with the wiring manager if there is enough capacity for future cabling.

Stay Updated with New Technologies:

Stay informed about upcoming technology (e.g., Wi-Fi 7, edge
computing). Confirm that the network infrastructure can handle future
upgrades without significant overhauls.

Conclusion:

Following this checklist and working closely with your wiring manager will ensure your office's network infrastructure is optimized for performance, security, and scalability. For professional oversight or additional services, contact iFeeltech for expert consultation.