



NexGen Services
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Summer Special: 15% Off on Cabling Upgrades and FREE Cabling Assessment



Your users want more speed and we can help with our **summer special** offering a free cabling and network inspection and assessment.

What You Need to Know

- Older cabling can cause problems in your network's speed and Wi-Fi functionality. If you still have some older Cat 5 cables mixed in with your 5e or 6, they can be a source of network slowness.
- As the number of devices in your network increases, inadequate cabling can be the cause of performance or reliability issues. If you have 10/100 switches but Gig network ports on your computers, they can be a point of congestion. If you have Gig switches but orange 1 Gig fiber backbones, that 1G fiber uplink can be struggling to support the 24 users on that switch each trying to communicate at 1 Gig.
- Newer wireless access points may now transmitting higher speed data than the network was designed for, it may be time to upgrade your network cable to Cat 6A 10 Gig.

Upgrades to Your Existing Structured Cabling Network

The following chart illustrates how upgrading your structured cabling increases your network capability. It's important to know that Cat 6 is compatible with Cat 5, so your cabling network can be upgraded only as needed. We will work on providing a cost-effective add-on solution that fits with your existing network.



NexGen techs cross-connecting cables to the data network infrastructure

Category	Max Transmission Speed at 100 meters
Cat 5	10/100 Mbps

Cat 5e	1,000 Mbps / 1 Gbps to 2.5 Gig
Cat 6	1,000 Mbps / 1 Gbps to 5 Gig
Cat 6a	10,000 Mbps / 10 Gbps
IF-1	1 Gig Fiber (orange)
OM-3 or 4	10 Gig Fiber (aqua)



NexGen/S&G engineer and certified technician at Robertshaw Industrial Products

Cabling Inspections

Structured cabling is the backbone of your voice and data network so this is important opportunity to have your cabling infrastructure inspected. Our certified technicians will provide an on-site assessment of your cabling network infrastructure, investigate and implement measures to avoid problems and, if necessary, make recommendations for repairs or upgrades. Our network engineers can evaluate your switches and architecture.

Other Services

Our services can also provide inspection and documentation of riser and horizontal cable not in use, inventory and tagging of cable and equipment, removal and disposal of old cables, and organize your patch cords to expedite troubleshooting. Our other services include:

- Data Rack & Cabinet Layout & Installation
- Voice and Data Workstation Cabling
- VoIP Infrastructure
- WiFi Assessment, Design & Installation
- Fiber Optic Cabling Installation Testing & Certification
- Computer Rooms & Data Centers
- 10 Gig Copper & Fiber - Overhead Raceway Design & Installation
- Racks, Cabinets, Under-floor Tray Systems



Cable tray and ladder mount installed at Personal Creations, Inc.

Contact Us

Whether you are looking to have your cabling network inspected, need to clean up a messy data rack, upgrade an existing infrastructure or design a new one, our certified staff will be able to create a cost-effective system to fit your company's needs. [Contact us](#) today for a complimentary assessment.

Your technology infrastructure is the backbone of your business. Work with a solution provider, not just a reseller. To learn more about us, please visit our website at

www.nex-gen-services.com

or contact me directly at 847-459-1220 or email jbush@sandgcom.com

Sincerely,

Jack Bush
President

STAY CONNECTED



www.nex-gen-services.com