

FIBER OPTIC NETWORKING SERVICES

EXPANSEELECTRICAL.COM

Build a High-Speed Network Infrastructure with Fiber Optic Solutions from Expanse

Fiber Optics Networks Provide:

- Greater Bandwidth
- Faster Speeds
- Longer Transmission Distances than Ethernet
- Greater Flexibility
- Improved Latency
- Stronger Security

Our solutions include the design, construction, installation, testing, troubleshooting and maintenance of various fiber optic networks to increase efficiency. This includes fiber optic terminations, which minimize loss and reflectance when terminating fiber optic cables utilizing fusion technologies. The process utilizes heat to fuse two optical fibers, facilitating the continuous transmission of light over long or short distances.

BENEFITS OF EXPANSE'S CONSTRUCTION & TERMINATION SOLUTIONS



Certified fiber optic technicians in multiple regions



Advanced OTDR (optical time-domain reflectometer) technology used to characterize integrity of fiber optic cables



Minimizes loss of light and network speed



The Expanse Advantage

- Turnkey Services Including Construction & Termination
- Advanced Automation and Control Integration and Programming Insight
- Certified UL Control Panel Manufacturer
- Coordinated As-Built Drawings
- Service What We Sell

Capabilities & Solutions

TERMINATION

- Patch Panel Splicing
- Fusion Splicing
- Pigtail Splicing

FIBER AND CABLE MANAGEMENT

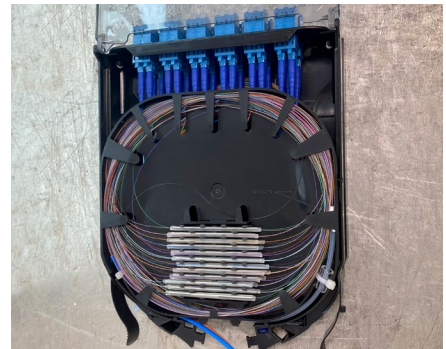
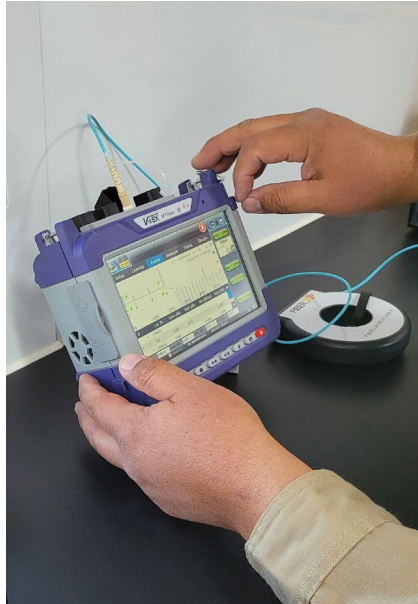
- Rack and Wall Mount Patch Panels
- Optical Entrance Enclosures
- Fiber Distribution Hubs

INSTALLATION

- Underground Installation
- Route Planning and Engineering
- Conduit and Duct Installation
- Aerial Installation

OPTICAL TESTING AND INSPECTION

- OTDR Testing to Verify Cable Integrity
- OTDR Analysis, Including Electronic Documentation of Results
- Loss Budget Analysis



Why Expanse?

- 24/7 Emergency Response
- 70+ Years of Experience
- Turnkey Services & Solutions
- In-House Engineering Department
- Experienced Craftsmen
- Local Expertise on National Scale
- Customer Support Across Geographical & Operational Spectrums

EXPANSE
~ ELECTRICAL CO. ~

NEW MEXICO

Carlsbad

NORTH DAKOTA

Williston

OKLAHOMA

Oklahoma City • Tulsa

TEXAS

Andrews • Big Spring • Houston
Midland • Odessa • San Angelo

FOR MORE INFORMATION

832.399.0054