



TELECOMMUNICATIONS

Northpower's experience in telecommunications, both as a network owner and as a contractor, means that our customers can be confident of the highest quality service. As the largest installer of blown fibre in New Zealand, with more than 800 kilometres installed in overhead and underground installations, you can be assured that we are up to date with the latest technological advances to future-proof your telecommunications network.

“safe, reliable, hassle free service”

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Northpower

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Northpower Telecommunications has developed, designed and built both blown fibre and traditional fibre optic cable networks.

As well as designing, building and maintaining fibre networks, we have full capability to capture fibre optic grid plans and GIS data to support fibre optic network systems. We have developed some unique methods of mitigating the visual impact of aerial fibre optic installations.

As an industry leader, Northpower is a member of the New Zealand Regional Fibre Group, consisting of 18 lines and fibre companies from around the country.

Our status as both a network owner and contractor gives us many synergies with our customers. These may be as simple but fundamental as the ability to integrate with each others' systems, or understanding and achieving safety policy requirements. At a higher level we understand the complexities of building, developing and maintaining from both a cost structure and return of investment point of view, driving an integrated service model.

Our capabilities include proficiency in all aspects of internal plant and equipment installation, from complete exchange or communications room fit-outs through to single unit equipment installations.

Northpower also offers a comprehensive range of services for outside plant. Whether you're looking for network design, network solutions and planning, maintenance, equipment installation or testing and commissioning, we can offer you an expert service. We also provide network optimisation, customer connections, fibre installation and splicing, jointing and terminating.

Our fibre optic design team works together seamlessly to plan, design, build and maintain overhead and underground fibre optic networks. We provide a full service including 24-hour callout for maintenance and faults restoration, project and subcontractor management, data management, inventory management and materials procurement.

We understand the need to minimise disruption to the community, and we build constructive relationships with local authorities to manage the consents process.

FIBRE OPTIC CAPABILITIES:

- Cisco IOS implementation
- Class of service design using IEEE 802.1p networks
- Design and installation to Bicsi standards
- Installing dark fibre, SCADA or PON Ethernet networks
- Designing EPON architecture and installing EPON equipment
- Troubleshooting, support services and fault restoration
- Tagged and double tagged VLAN design
- Managing client information systems and as-built records into GIS and PNI
- Installation of blown fibre in multi-duct, aerial and underground
- Installation of traditional fibre, direct-buried or ducted
- Fibre splicing, terminating, testing and commissioning

INTERNAL PLANT CAPABILITIES:

- DSLAM/CMUX/ASAM
- Cable tray, cabinet and racking installation
- Signal and power interconnection cabling
- Level 1 maintenance
- Asset management
- Mobile switches
- Exchange switches
- CEV & POI transmission equipment
- International gateway exchange
- GSM base station
- Transmission equipment (multiplexer)
- Microwave frames
- Power distribution frames DSX & rectifier bays
- Panel installation and jumpering system commissioning



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