

Smart Native American Reservations
Bridging Tradition and Technology for
Sovereign Futures

A Vision for Empowered Communities
Merging smart city infrastructure with
cultural preservation and tribal sovereignty.

Salish Tribal Alliance Group
Leading the initiative alongside Traxl,
NANOFIBER, Point 2 Point, and HTI.

Sustainable & Culturally-Aligned Innovation
Designing smart systems that enhance, not
replace, Native identity and traditions.



Salish Tribal Alliance

Introduction

- **The Importance of Smart Technologies for Indigenous Communities**
- **Closing the Digital Divide**
 - **Native reservations frequently experience some of the lowest connectivity rates in the United States, which restricts access to essential services.**
- **Infrastructure Deficiencies Impede Development**
 - **The absence of digital infrastructure obstructs education, healthcare, economic growth, and public safety.**
- **Smart Technology as a Route to Sovereignty**
 - **Digital independence fosters self-governance, cultural preservation, and the overall well-being of the community.**



Vision & Values

Technology Driven by Culture and Sovereignty

- **Technology Supporting Culture:** Digital resources should enhance, rather than supplant, tribal identities, languages, and values.
- **Sovereign Systems:** Intelligent infrastructure must be owned, managed, and protected by the tribe to maintain independence.
- **Community-Focused Innovation:** Solutions are collaboratively developed with elders, youth, and local leaders to address specific community requirements.

HUNTER TELECOM INC. (HTI)



Development Partner Ecosystem

Empowering Smart Tribal Connectivity through Expertise

- **Salish Tribal Alliance Group:** Leads with tribal governance, sovereignty-first design, and alliance coordination.
- **Hunter Telecom Inc. (HTI):** Integrates all vendors and projects with expertise in tribal and rural deployments.
- **nanoFIBER™:** Provides stainless-steel armored fiber that's durable, cost-effective, and bend-resistant.
- **TRAXyL (FiberTRAX):** Offers trench-free fiber deployment with ultra-fast, minimally invasive installation.
- **Point 2 Point (P2P):** Supplies custom telecom hardware and champions tribal ownership in connectivity.



TR **TRAXyL**[®]
Here to anywhere.

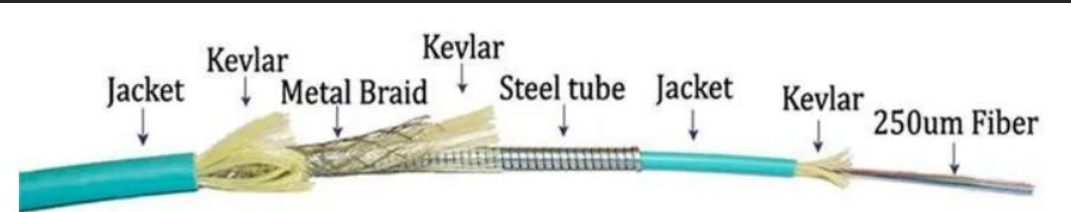


Diagram #2: Cut away image of the typical nanoFIBER stainless steel armored and components

FiberTrax offers an efficient approach to the installation of fiber optic lines, suitable for both small and large-scale projects.



Versatility and Precision

TRAXtors are self-propelled machines designed to install FiberTRAX on demand. They come in various sizes and capabilities, making them adaptable in different environments. Typically, one or two machines can install FiberTRAX on pavement at a remarkable speed of up to 1,000 feet (305 meters) per hour. The installation process involves etching a small channel into the pavement surface, just a few millimeters deep, to house the fibers and resin. This method ensures that the pavement surface layer remains intact, preserving its integrity.



TRAXtors®

Revolutionizing Infrastructure Installation

In the ever-expanding world of infrastructure needs, efficiency and innovation are key. The TRAXtors, our state-of-the-art installation machines, are transforming the way fiber and other utilities get deployed.

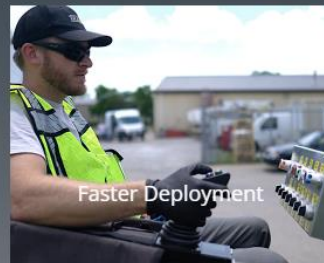
Capable of installing at an impressive rate of 1,000 feet (305 meters) per hour, these automated infrastructure deployment machines are setting new standards in the industry.



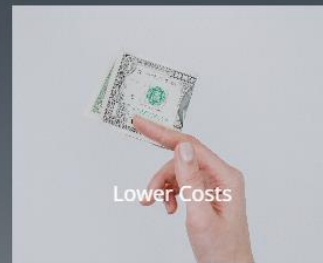
Once the microducts are in place, a specialized protective coating is applied. The coating shields the microducts from physical damage, preventing cracks or leaks and withstands extreme temperatures, UV radiation, and moisture. It cures within minutes, allowing for rapid deployment.



Other organizations are turning to TRAXyL for solutions. Here's why you should too.



Faster Deployment



Lower Costs



Advanced Knowledge



Enhanced Reliability



More Competitive



Broader Scale



Improved Performance



Added Versatility



NANO FIBER

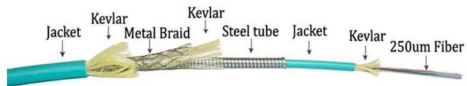


Diagram #2: Cut away image of the typical nanoFIBER stainless steel armored and components



FiberTRAX Cross-Section

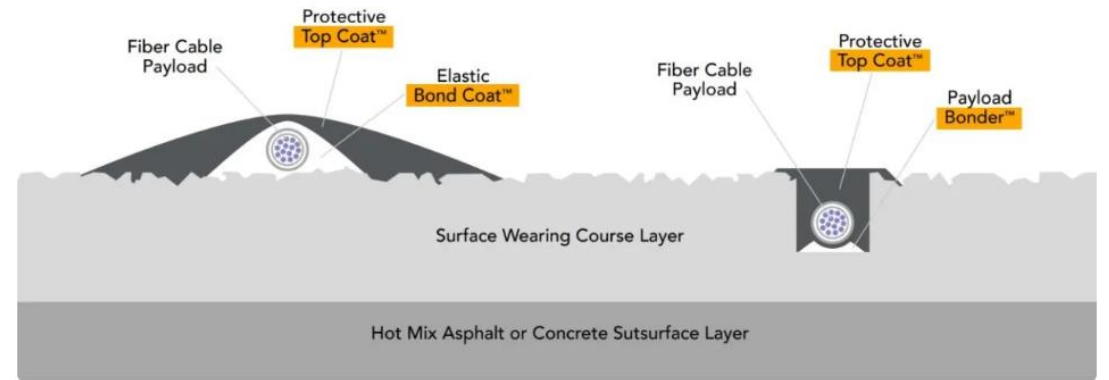
Surface-Mount

Flush-Mount

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Width 80-100 mm Height 7-9 mm Payload Diameter 3-5 mm

Width 9-13 mm Height 6-13 mm Payload Diameter 3-7 mm





Improved Resource Management

Intelligent Infrastructure for Water, Energy, and Land

- **Intelligent Irrigation Systems:** IoT-driven technology enhances water efficiency in both conventional and sustainable farming practices.
- **Sustainable Microgrids:** Grids powered by solar and wind energy decrease reliance on outside utilities and promote energy independence for tribal communities.
- **Land Utilization Oversight:** Drones and GIS technologies assist in safeguarding habitats, preserving cultural sites, and planning for development.

Enhanced Access to Healthcare

Intelligent Systems Delivering Care to Isolated Communities

- **Telehealth Integration**

Online consultations minimize the need for travel and provide immediate access to specialists for patients.

- **Mobile Health Units**

Solar-powered mobile clinics equipped with diagnostic tools offer services directly at patients' homes.

- **Advanced Health Monitoring**

Wearable and remote health devices monitor chronic illnesses and integrate with tribal electronic health records (EHRs).



Economic Empowerment

Smart Infrastructure Fuels Local Business and Opportunity

- **Broadband-Driven Entrepreneurship:** Reliable internet enables remote business startups, e-commerce, and digital services.
- **Online Education & Training:** Virtual learning tools support youth and adult skill-building in their own communities.
- **Remote Work Enablement:** Connectivity opens access to national and global job markets while preserving residency.





Cultural Preservation

Digital Tools Protecting Language, Identity, and Heritage

- **Language Revitalization Platforms**

Mobile and web apps document and teach Native languages to younger generations.

- **Oral History Archives**

Audio-visual recordings preserve elder wisdom, stories, and ceremonies.

- **Tribal-Controlled Data Systems**

Digital sovereignty ensures sensitive content is stored, accessed, and governed by the community.

Environmental Stewardship

Smart Tech for Nature-Aligned Living

- **Sensor-Based Monitoring:** Track air, water, and soil health in real-time, protecting ecosystems and sacred sites.
- **Renewable Energy Systems:** Solar, wind, and bioenergy align with Native values of sustainability and self-reliance.
- **Drone and Satellite Tools:** Used for wildfire detection, habitat mapping, and land conservation planning.



Community Smart Grid

Sovereign Renewable Energy for Tribal Autonomy

- **Solar-Powered Microgrids:** Locally managed systems provide clean, reliable power and reduce grid dependency.
- **Energy Storage Integration:** Battery banks ensure energy continuity during outages and peak demand.
- **Local Workforce Training:** Community members are trained to install and maintain systems, creating green jobs.



Broadband Connectivity

Linking Communities through High-Speed Access

- **5G and Satellite Implementation**

Fast wireless solutions help eliminate infrastructure disparities in rural and isolated regions.

- **Community Wi-Fi Centers**

Consolidated access points provide shared connectivity for residences, educational institutions, and healthcare facilities.

- **Public-Private Collaborations**

Federal funding alongside Native-owned technology companies fosters the development of sustainable and autonomous networks.



Mobile Health Units

Bringing Care to the Heart of the Community

- **Solar-Powered Clinics**

Self-sustaining mobile units with diagnostics and real-time data syncing.

- **Culturally Competent Staff**

Healthcare teams trained to respect tribal values, language, and wellness beliefs.

- **Integrated Tribal Health Records**

Smart data systems connect with local EHRs, ensuring continuity of care.



Salish Tribal Alliance

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