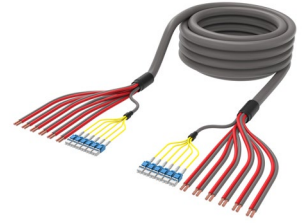


# Hybrid Trunk Cables >

Hybrid Trunk Cables combine power and fiber optic data transmission into a single, rugged cable, simplifying cable routing and accelerating installation work. Robust construction enables reliable operation in harsh environments, making these cables ideal for outdoor applications such as connections to remote radio units (RRUs) and other tower-mounted equipment.



## ADVANTAGES AND FEATURES

### Offers space savings

Combining power and fiber optic data connectivity into one cable system makes more efficient use of limited space on the tower and helps enable upgrades and expansions.

### Enhances design flexibility

Various copper cable sizes and fiber counts are available to meet specific application needs, ensuring compatibility with most standard radio designs while reducing system complexity and simplifying inventories.

### Delivers reliable operation in harsh environments

Rugged construction helps ensure consistent operation over the product lifespan, reducing system downtime and maintenance costs.

Power Circuits	Up to 24
Wire Size	12 to 4 AWG
Voltage	Up to 600V
Fiber Count	Up to 48
Cable Lengths	10' to 600' (3.0 to 182.9m)
Operating Temperatures	-40 to +85°C

### Supports high-bandwidth data transmission

High-performance fiber optic cable combined with power transmission makes these cables ideal for connections to RRUs and other tower applications, preventing bandwidth constraints.

### Minimizes installation and maintenance costs

Simplifying cable architecture and routing by combining power and data into one cable assembly with pre-terminated connectors reduces installation time and costs.

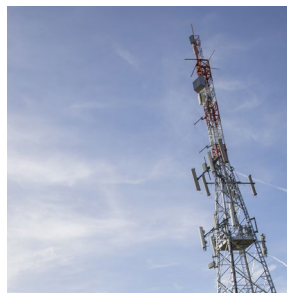
## MARKETS AND APPLICATIONS

### Telecommunications

AM/FM radio systems  
Tower-based communications systems  
Wireless telecommunications equipment

### Wireless Infrastructure

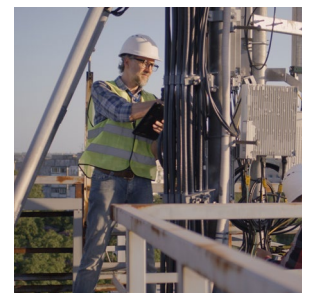
Broadband fixed wireless access systems  
Public-safety/land mobile radio devices



*Tower-Based  
Communication Systems*



*Broadband Fixed Wireless  
Access Systems*



*Wireless Telecommunications  
Equipment*

# Hybrid Trunk Cables

## SPECIFICATIONS

### Reference Information

Packaging: Reel  
Designed In: Inches  
RoHS: Yes  
Halogen Free: Yes  
UL Rating: UL83, UL1277, UL1685  
Seal Rating: IP68 (for breakouts)

### Electrical

Voltage (max.): 600V  
Current (max.): 95.0A  
Insulation Resistance: 100 Megohms

### Optical

Attenuation/Insertion Loss: 0.40 dB/km (1,310nm),  
0.30 dB/km (1,550nm)  
Return Loss: -50 dB

### Mechanical

Cable Outside Diameter: 0.75" to 2.25"  
(19.0 to 57.0mm)  
Power Cable Size: 12 to 4 AWG  
Power Circuits: Up to 24  
Optical Cable Type: Single-mode G657.A2 fiber  
Fiber Count: Up to 48  
Cable Lengths: 10' to 600' (3.0 to 182.9m)  
Optical Connectors: LC, SC, ODC

### Physical

Power Cable Jacket: Thermoplastic high-heat-resistant nylon-coated (THHN)  
Optical Cable Armor: Stainless steel spiral armored fiber  
Optical Cable Jacket: Low-smoke zero halogen (LSZH)  
Operating Temperatures: -40 to +85°C