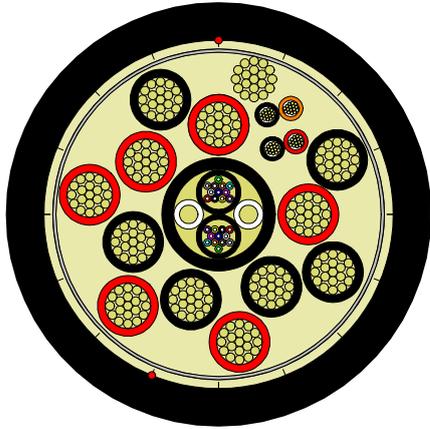


This hybrid cable is specifically designed for wireless infrastructure applications such as macro cell towers. Engineered for rugged outdoor use, it is suitable for direct burial and harsh environmental conditions. The cable combines fiber optics, power, and alarm signaling within a single jacket, streamlining installation and reducing the need for multiple cable runs. It supports high-voltage power transmission (600V rated), includes a high strand count of 24 single-mode fibers for robust data capacity, and ensures signal integrity through integrated shielding. Additionally, it is built to withstand UV exposure and extreme temperature variations, making it a reliable solution for demanding telecom and industrial environments.



### Applications

- Designed for wireless infrastructure macro cell towers
- Ideal for outdoor installations including direct burial
- Suitable for environments requiring:
  - High voltage power (600V rated)
  - High strand count fiber (24 fibers)
  - Signal integrity via shielding
  - UV resistance and temperature durability

### Construction

- Power Conductors: 12x6 AWG (19-strand) Bare Copper
  - DC Resistance: 0.412 ohm/1,000 ft max at 20°C
  - Color Code: (6) Black, (6) Red
- Alarm Pairs: 2 Pairs 18 AWG (16-strand) Bare Copper
  - DC Resistance: 6.66 ohm/1,000 ft max at 20°C
  - Color Code: Black / White & Black, Orange / Orange & Black
- Fiber Unit: 24 Fiber Multi-unit, SM G657/A series, 250µm, LT
- Fiber Fillers: Non-Hygroscopic Polypropylene for Circular Cross-Section
- Insulation: Polyvinylchloride/Nylon
- Conductor Markings: 1-ONE, 2-TWO, 3-THREE, 4-FOUR, 5-FIVE, 6-SIX (every 3 inches)
- Shield: 3-mil Bare Copper Foil Tape with minimum 20% overlap
- Outer Jacket:
  - Black Polyvinylchloride (PVC)
  - UV/Sunlight Resistant
  - Direct Burial Rated
  - Diameter: 34.80 mm – 36.2 mm ± 0.63 mm
- Ground / Drain Wire: Provides 100% contact to shield
- Ripcord: Aramid (1), 2-ply for easy jacket stripping

### Features

- Fiber Type: 24F Multi-unit, 6mm-10mm OD, SM G657/A series 250µm LT
- Max Attenuation:
  - 0.50 dB/km at 1310 nm
  - 0.50 dB/km at 1550 nm
- Voltage: 600V THHN / THWN-2 (UL® 83 compliant)
- Temperature Rating:
  - Operating: -40°C to 90°C
  - Conductors: 90°C Dry / 90°C Wet
- Flame Performance: TC-OF / TFFN / THWN-2 / FT4
- Dielectric Withstand: 2,000V RMS for 60 seconds
- Minimum Bend Radius: 10 × Outer Diameter (approx. 348–362 mm)
- Markings: Inkjet printed legend
- Weight: 1,546.9 lbs./kft

### Standards & Certifications

- ANSI/ICEA S-87-640-2023
- UL® Listed 1277
- UL® Listed 83
- ITU-T G.657.A series & G.652.D
- GR-20
- Made in USA / Build America Buy America (BABA)
- TL9000