VERTICAL CABLE

# SINGLEMODE, LOOSE TUBE ALL-DIELECTRIC NON-ARMORED

## OPTICAL FIBER CABLE | 6—144 FIBERS

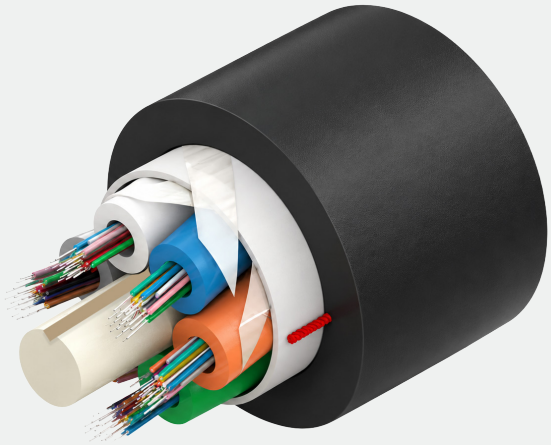
# 281-NAR SERIES

## DESCRIPTION

**Outside Plant Central Loose Tube Optical Fiber Cable — 6-144 Fiber, Non-Armored, Singlemode**

## FEATURES

- All-dry (gel-free)
- Flexible loose tube
- Corrugated steel armor
- Color-coded fibers
- Water-blocking and UV-resistant jacket
- Aramid ripcords allow for easy stripping
- Applications: outdoor, duct, lashed, and air blown fiber installations



| PART NUMBERS | |
|---|---|
| 281-NAR006/BK (6F) (6-Fibers) | 281-NAR048/BK (48F) (48-Fibers) |
| 281-NAR012/BK (12F) (12-Fibers) | 281-NAR072/BK (72F) (72-Fibers) |
| 281-NAR024/BK (24F) (24-Fibers) | 281-NAR096/BK (96F) (96-Fibers) |
| | 281-NAR144/BK (144F) (144-Fibers) |

### TRANSMISSION PERFORMANCE

| | |
|---|---|
| OFS® Fiber Type: | G652.D |
| Max Attenuation: | 0.36/0.25 dB/Km |
| Wavelength: | 1310/1550 nm |

### ENVIRONMENTAL

| | |
|---|---|
| Operating Temperature: | -40 °C to 70 °C (-40 ° F to 158° F) |
| Installation Temperature: | -30 °C to 70 °C (-22 ° F to 158° F) |
| Storage/Transport: | -40 °C to 70 °C (-40 ° F to 158° F) |

### CONSTRUCTION

| | |
|---|---|
| Fiber per tube: | 2-12 |
| Fiber Color Coding: | Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua |
| Dielectric Central Strength Member: | FRP |
| Jacket Material: | Polyethylene |
| Jacket Outer Diameter: | 0.44 in. (11.1 mm) |
| Jacket Thickness: | 0.06 in. (1.5 mm) |
| Loose Tube Material: | PP |
| Loose Tube Diameter: | 0.1 in. (2.5 mm) |
| Ripcord | x2, Aramid |

### STANDARDS & CERTIFICATIONS

ISO-9001:2015
Telcordia GR-20
IEC 60794
ANSI/ICEA S-87-640

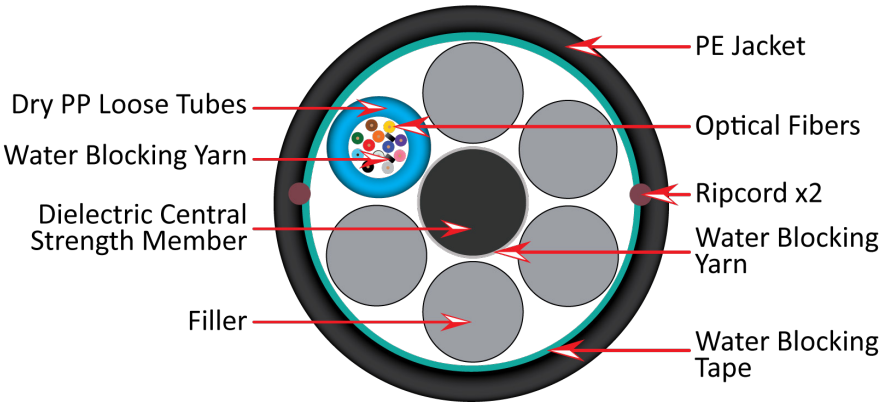
### JACKET MARKING

=(MONTH/YEAR) WAVEOPTICS OPTICAL CABLE==SJADD==PP==(SYMBOL)==(FIBER TYPE)==(FIBER COUNT)==(XXXX FT)==(LOT#)

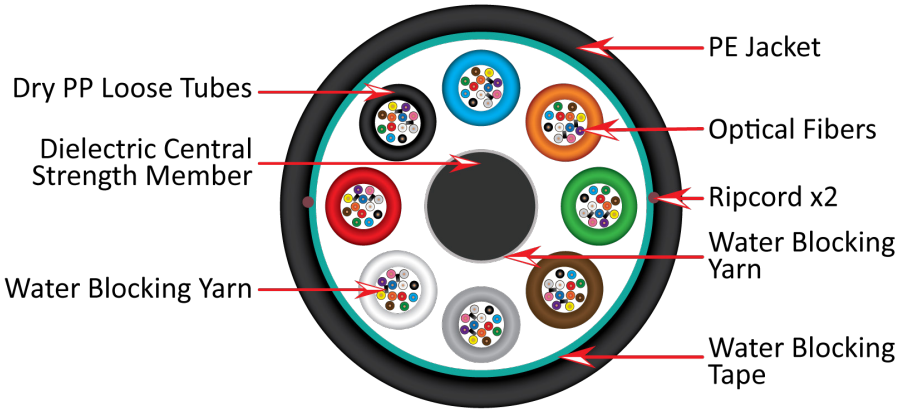

Florida (HQ) 800-749-2447
California 951-696-7772
New York 845-391-8318
Texas 713-322-7242

## INSTALLATION REQUIREMENTS — MECHANICAL & ENVIRONMENTAL

| Fiber Count | 6 | 12 | 24 | 48 | 72 | 96 | 144 |
|---|---|---|---|---|---|---|---|
| Nominal Outer Diameter (+- 5%) | 0.44 in. (11.1 mm) | 0.44 in. (11.1 mm) | 0.44 in. (11.1 mm) | 0.44 in. (11.1 mm) | 0.44 in. (11.1 mm) | 0.5 in. (12.7 mm) | 0.63 in. (15.9 mm) |
| Dielectric Central Strength Member Diameter (With-out PE / With PE) | 0.1 in. (2.6 mm) | 0.1 in. (2.6 mm) | 0.1 in. (2.6 mm) | 0.1 in. (2.6 mm) | 0.1 in. (2.6 mm) | 0.12 / 0.17 in. (3 / 4.2 mm) | 0.12 / 0.29 in. (3 / 7.4 mm) |
| Tensile Strength (N) (lbf) (Long-Term / Short Term) | 890 / 2,700 (200/607) | 890 / 2,700 (200/607) | 890 / 2,700 (200/607) | 890 / 2,700 (200/607) | 890 / 2,700 (200/607) | 890 / 2,700 (200/607) | 890 / 2,700 (200/607) |
| Cable Weight (lb/kft) (kg/km) (±10%) | 63 (94) | 63 (94) | 63 (94) | 63 (94) | 63 (94) | 66 (99) | 106 (158) |
| Loose Tube/Fillers | 1/5 | 1/5 | 2/4 | 4/2 | 6/0 | 8/0 | 12/0 |
| Crush Resistance (Long-Term/ Short-Term) | 2,200 N/100 mm / 1,100 N/100 mm | | | | | | |
| Min. Bend Radius (Operation/ Installation) | 10 x cable O.D. / 20 x cable O.D. | | | | | | |




**12-Fiber**




**96-Fiber**

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This specification sheet is subject to change without notice.