



High-Count Strands Fiber Optic Cable

- **Vocom-NWF Niche Market Solution for**

5G Infrastructure

FTTx backbone

Special Cloud/ DC Access

Today's Market and Industry Challenge

A market report released by Fiber Broadband Association (FBA) in Dec 2017 spells out the assumptions that drove its fiber deployment forecast and cites sources for those assumptions:

- While macrocells are roughly 0.5 to 25 miles apart, 5G will require small cells located between **200 and 1,000 feet apart**
- To deliver gigabit peak speeds to each user, the minimum downlink speed to each small cell will need to be **20 Gbps and the uplink** peak data rate will need to be 10 Gbps
- 5G may require **60 small cells** to cover one square mile
- The top 25 U.S. metro markets cover approximately **174,000 square miles**

During the J.P. Morgan Global Technology, Media and Telecom Conference 2017 last May, Lowell McAdam, Verizon's CEO told investors ***the telco is putting in 1,700 strand cables in the main feeder routes.***

Vocom-NWF's Niche Solution

Vocom-NWF has been effectively and successfully addressing the niche market of high-count strands (i.e. 144 strands and above) fiber optic cable in the US and Canada.

Our clients welcome the top-notch quality, competitive rates and on time delivery of our high-count strands fiber cables such as Loose Tube Cable Series with up to 432 optical fibers, gel fill or dry core; air blown micro 144 and 288 optical fibers, and ADSS 144 and 288 optical fibers, etc.

The highlight here is our complete series of higher-fiber-count ribbon cable from 144 to 864 optical fibers; both armored and dielectric, all dry or half dry, with a ***Special Plus***: our ultra-high-count designs is the 1728-fiber Ribbon-in-Loose-Tube cable.

Ribbon Distribution Cable

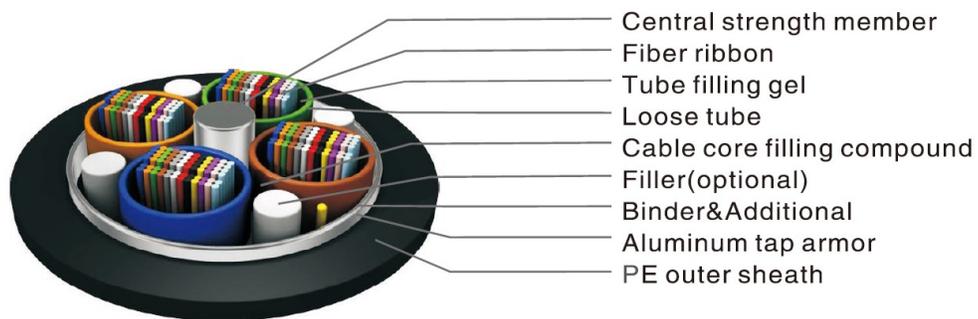
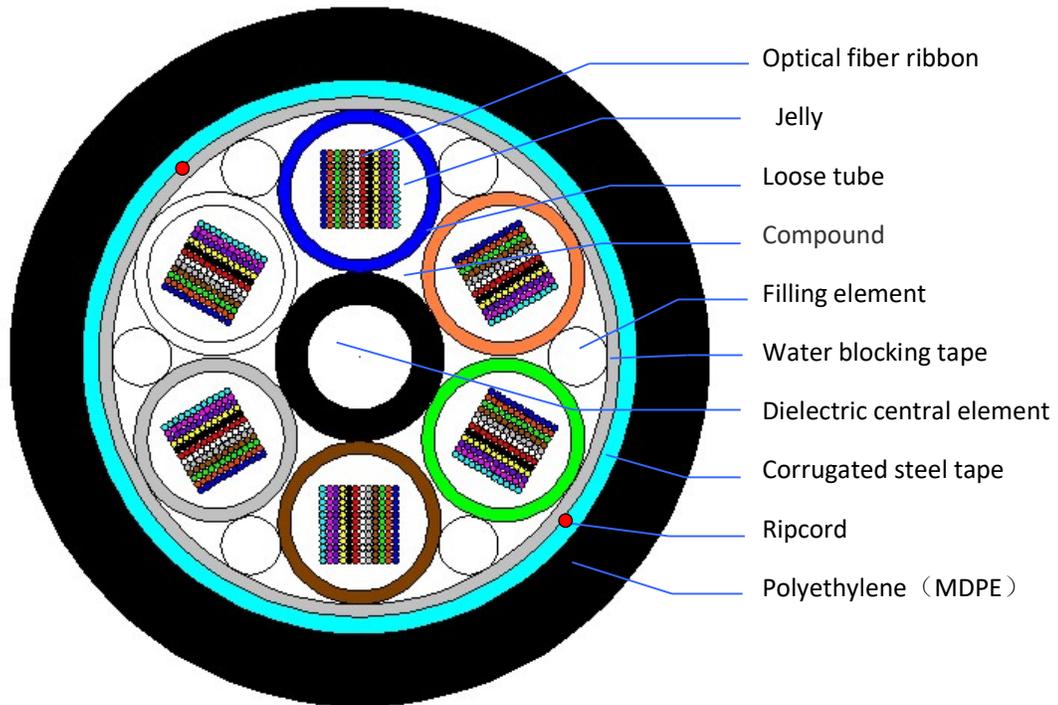
Vocom-NWF's Premises Ribbon Distribution Cables are designed to enable the economical and efficient transition of high-fiber-count outside plant ribbon cable from the splice vault into the customer's communications center. At the increased fiber count of 288, the new cables permit a higher port density within the customer's communication center, thus increasing carrying capacity.

This cable is designed for direct burial, duct and aerial applications. It takes advantage of both S-Z stranded loose tube cable and ribbon cable. Each loose tube, consist of 12-fiber ribbons or 24-fiber ribbons stacked in a compact structure in order to reduce fiber movement. This design frees fibers from environmental hazards and ensures high transmission reliability and quality as the ribbon stack acts as a single unit. Loose tubes are S-Z stranded on a dielectric central strength member; therefore, no grounding is required.

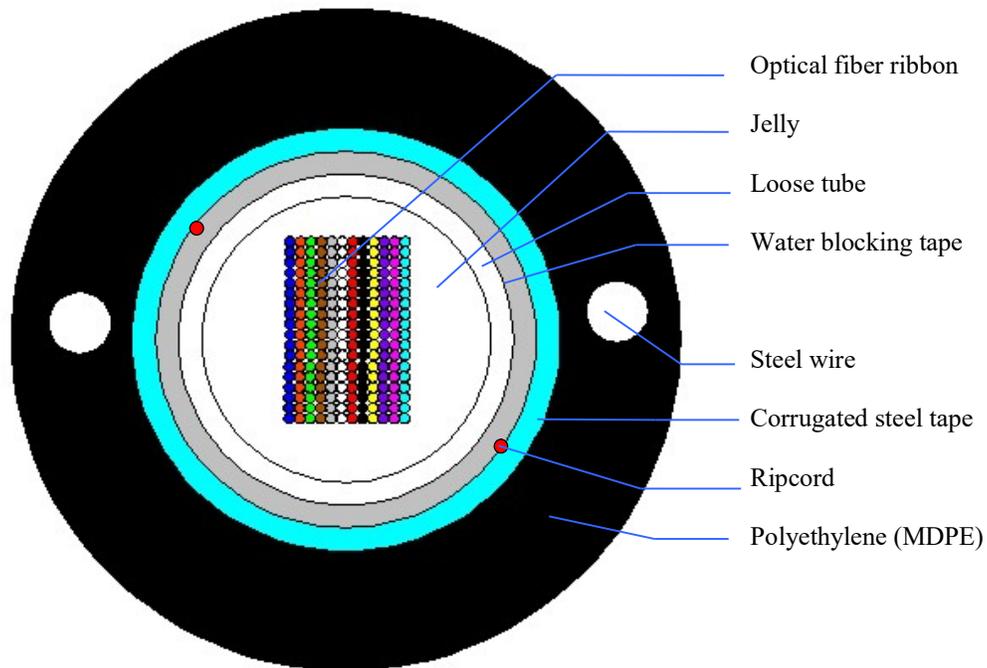
This design enables the total fiber count astonishingly up to 1728. Gel-free indicates there are water-blocking yarns in the loose tube and water-blocking tape wrapping around the loose tubes, meaning no mess or cleanup. If the loose tube stranded structure of cable needs additionally reinforced with the single armor: corrugated steel tape, it has extra protection against crush and rodent.

When it is in central tube structure, the cable is additionally reinforced with strength member: two steel wires located symmetrically under the cable jacket, which provides considerable tensile strength. It is easy to strip with two ripcords under the cable jacket. The jacket is rugged and durable medium density polyethylene.

Type I. Loose Tube Gel-filled Single Armored Single Jacket Ribbon Cable (GYFDTS as shown in the diagram below)



Type II. Single Central Tube Half-Dry Single Armored Single Jacket Ribbon Cable (GYDXTW as shown in the diagram below)



Special Bonus - 1728-fiber Cable

Vocom-NWF's 1,728-fiber cable represents the next generation of ultra-high-fiber-count ribbon cable for outside plant applications. The company has been the consistent leader in developing cables that maximize existing rights of way and meet the high capacity and compact design requirements of metropolitan environments.

For more product and solution details, contact Vocom - NWF based in California and Virginia

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