

## Ultra HD MicroCore®

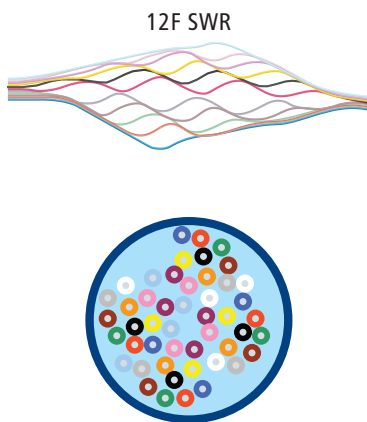
The Ultra HD MicroCore is the latest development in AFL's sub-unitized MicroCore cable family that uses SpiderWeb Ribbon® (SWR®) technology. Designed to support high fiber density deployments in data center and central office installation environments, the ultra HD sub-unit designs optimize splicing efficiency when interconnected with AFL's Wrapping Tube Cable.

With continued requirements for higher bandwidth, higher fiber density cabling products are critical to support that demand. Ultra HD MicroCore cable designs feature 72-fiber and 144-fiber sub-units that result in maximum fiber counts up to 432 and 576 respectively. The cable consists of an OFNR/FT4 (UL1666) flame-rated outer jacket with an installation tension rating of 150 lbs., qualified to meet and exceed the requirements of the latest Telcordia GR-409-CORE inside plant cabling requirements.

### Features

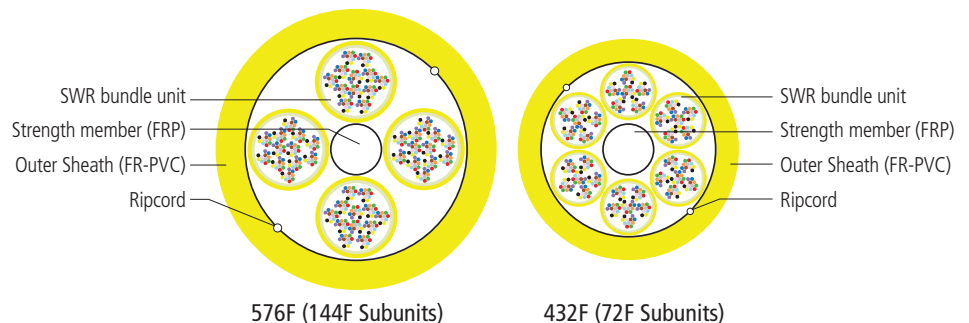
- **SpiderWeb Ribbon**  
Collapsible ribbon reduces size of cable compared to other encapsulated or pliable ribbon technologies
- **OFNR Riser Rating**  
Can be routed within designated riser spaces within build structures
- **Small Diameter**  
Because of the smaller diameter, more optical fibers can be placed into crowded or limited-space pathways

### SWR Technology



Multiple 12F SWR subunits  
72F OR 144F subunits  
depending on cable fiber count

### Cable Components



### Temperature Range

Operating	0°C to +70°C
Storage	-40°C to +70°C
Installation	0°C to +60°C

### Standards Compliance

- UL 1666, Listed Riser
- ANIS/ICEA S-83-596
- GR-409-CORE Issue 2

## Ultra HD MicroCore®

### Mechanical Data

DESCRIPTION	FIBER COUNT	SUB-UNIT COUNT	NOMINAL DIAMETER	WEIGHT	MAXIMUM TENSILE LOAD		MINIMUM BEND RADIUS	
			INCHES (MM)		LBS/1,000 FT (KG/KM)	SHORT TERM LBS (N)	LONG TERM LBS (N)	SHORT TERM INCHES (MM)
GR144P45199R	144	72	0.433 (11.0)	81 (120)	150 (660)	45 (200)	6.5 (16.5)	4.3 (11.0)
GR216P45199R	216	72	0.433 (11.0)	91 (135)	150 (660)	45 (200)	6.5 (16.5)	4.3 (11.0)
GR288P45199R	288	72	0.433 (11.0)	97 (145)	150 (660)	45 (200)	6.5 (16.5)	4.3 (11.0)
GR360P45199R	360	72	0.531 (13.5)	154 (230)	150 (660)	45 (200)	8.0 (20.3)	5.3 (13.5)
GR432P45199R	432	72	0.531 (13.5)	165 (240)	150 (660)	45 (200)	8.0 (20.3)	5.3 (13.5)
GR432P70199R	432	144	0.531 (13.5)	168 (250)	150 (660)	45 (200)	8.0 (20.3)	5.3 (13.5)
GR576P70199R	576	144	0.665 (16.9)	210 (300)	150 (660)	45 (200)	10.0 (25.4)	6.7 (16.9)

### Optical Fiber

FIBER DESIGNATOR	MFD	MAXIMUM ATTENUATION (CABLED) dB/km		
		1310 NM	1383 NM	1550 NM
P (ITU-T G.652D/G.657.A1)	9.2 ± 0.4 μm	≤0.40	≤0.40	≤0.30

### Ribbon Identification

FIBER COUNT	BINDER UNIT (BU)	RING MARKINGS
288F	4 Binder Units <span style="display: inline-block; width: 15px; height: 15px; background-color: #0056b3; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #ffc000; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #008000; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #800000; border: 1px solid black;"></span>	1-6 Ring Marking (72F Bundles)  Ultra HD MicroCore GQ288 and GQ432 w 72F subs
432F	6 Binder Units <span style="display: inline-block; width: 15px; height: 15px; background-color: #0056b3; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #ffc000; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #008000; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #800000; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #cccccc; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #cccccc; border: 1px solid black;"></span>	
576F	8 Binder Units <span style="display: inline-block; width: 15px; height: 15px; background-color: #0056b3; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #ffc000; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #008000; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #800000; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #cccccc; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #cccccc; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #ff0000; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #000000; border: 1px solid black;"></span>	
864F	12 Binder Units <span style="display: inline-block; width: 15px; height: 15px; background-color: #0056b3; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #ffc000; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #008000; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #800000; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #cccccc; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #cccccc; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #ff0000; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #000000; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #ffff00; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #800080; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #cccccc; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #cccccc; border: 1px solid black;"></span>	
1152F	8 Binder Units <span style="display: inline-block; width: 15px; height: 15px; background-color: #0056b3; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #ffc000; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #008000; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #800000; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #cccccc; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #cccccc; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #ff0000; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #000000; border: 1px solid black;"></span>	1-12 Ring Marking (144F Bundles)  Ultra HD MicroCore GQ432 and GQ576 w 144F subs
1728F	12 Binder Units <span style="display: inline-block; width: 15px; height: 15px; background-color: #0056b3; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #ffc000; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #008000; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #800000; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #cccccc; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #cccccc; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #ff0000; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #000000; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #ffff00; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #800080; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #cccccc; border: 1px solid black;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: #cccccc; border: 1px solid black;"></span>	