

Ultra HD MicroCore®

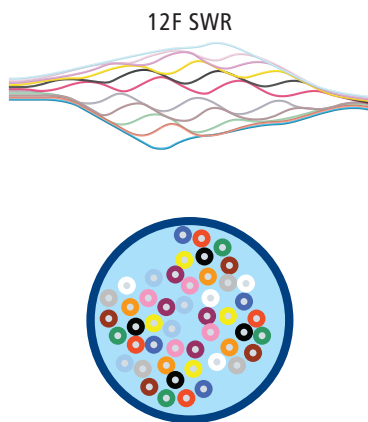
The Ultra HD MicroCore is the latest development in AFL's sub-unitized MicroCore cable family that uses SpiderWeb Ribbon® (SWR®) technology. Designed to support high fiber density deployments in data center and central office installation environments, the ultra HD sub-unit designs optimize splicing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

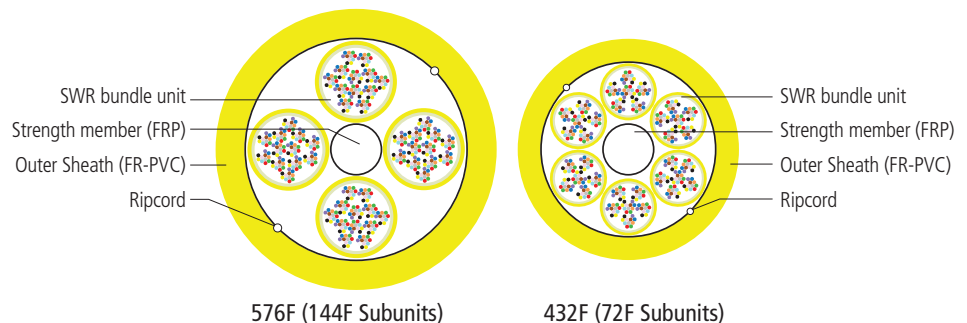
- **SpiderWeb Ribbon**
Collapsible ribbon reduces size of cable compared to other encapsulated or pliable ribbon technologies
- **OFNR Riser Rating**
Can be routed within designated riser spaces within build structures
- **Small Diameter**
Because of the smaller diameter, more optical fibers can be placed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

CABLE TYPE	AFL NO.	FIBER COUNT	NO. OF SUBS	NO. OF FILLERS	NOMINAL DIAMETER		WEIGHT LBS/1,000 FT (KG/KM)	MAXIMUM TENSILE LOAD		MINIMUM BEND RADIUS	
					INCHES (MM)	LBS (N)		LONG TERM LBS (N)	INSTALL INCHES (MM)	LONG TERM INCHES (MM)	
SINGLEMODE											
72F Sub-units	GR144P45199R:T4C	144	2	2	0.551 (14.0)	103 (153)	150 (660)	45 (200)	8.27 (210)	5.51 (140)	
	GR216P45199R:T4C	216	3	1	0.551 (14.0)	107 (159)	150 (660)	45 (200)	8.27 (210)	5.51 (140)	
	GR288P45199R:T4C	288	4	0	0.551 (14.0)	115 (165)	150 (660)	45 (200)	8.27 (210)	5.51 (140)	
	GR432P45199R:T6C	432	6	0	0.650 (16.5)	165 (240)	150 (660)	45 (200)	9.75 (248)	6.50 (165)	
	GR864P45199R:TCC	864	12	0	0.925 (23.5)	339 (505)	150 (660)	45 (200)	13.88 (353)	9.25 (235)	
144F Sub-units	GR144P70199R:U4C	144	1	3	0.787 (20.0)	177 (264)	150 (660)	45 (200)	11.81 (300)	7.87 (200)	
	GR288P70199R:U4C	288	2	2	0.787 (20.0)	194 (288)	150 (660)	45 (200)	11.81 (300)	7.87 (200)	
	GR432P70199R:U4C	432	3	1	0.787 (20.0)	165 (240)	150 (660)	45 (200)	11.81 (300)	7.87 (200)	
	GR576P70199R:U4C	576	4	0	0.787 (20.0)	210 (300)	150 (660)	45 (200)	11.81 (300)	7.87 (200)	
MULTIMODE											
OM3		OM4									
72F Sub-units	GR144L451CCS:T4C	GR144C451CCS:T4C	144	2	2	0.551 (14.0)	103 (153)	150 (660)	45 (200)	8.27 (210)	5.51 (140)
	GR216L451CCS:T4C	GR216C451CCS:T4C	216	3	1	0.551 (14.0)	107 (159)	150 (660)	45 (200)	8.27 (210)	5.51 (140)
	GR288L451CCS:T4C	GR288C451CCS:T4C	288	4	0	0.551 (14.0)	115 (165)	150 (660)	45 (200)	8.27 (210)	5.51 (140)
	GR432L451CCS:T6C	GR432C451CCS:T4C	432	6	0	0.650 (16.5)	165 (240)	150 (660)	45 (200)	9.75 (248)	6.50 (165)
	GR864L451CCS:TCC	GR864C451CCS:TCC	864	12	0	0.925 (23.5)	339 (505)	150 (660)	45 (200)	13.88 (353)	9.25 (235)

*Additional fiber counts and constructions available upon request

Fiber Specifications

CORE SIZE/FIBER TYPE	ISO/IEC	MAXIMUM ATTENUATION (DB/KM)			OVERFILL LAUNCH MIN. BANDWIDTH (MHZ•KM)		EMBC (MHZ•KM)	GIGABIT ETHERNET MIN. LINK DISTANCE (METERS)		10 GIGABIT ETHERNET MIN. LINK DISTANCE (METERS)	
		850 NM	1300 NM	1550 NM	850 NM	1300 NM		850 NM	1300 NM	850 NM	1300 NM
(P) (ITU G.652.D/G.657.A1)	OS2	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5,000	N/A	10,000
(L) 50 Laser-Link 300	OM3	3	1.2	N/A	1,500	500	2,000	1,000	550	300	—
(C) 50 Laser-Link 550	OM4	3	1.2	N/A	3,500	500	4,700	1,040	550	550	—

Ribbon Identification

FIBER COUNT	BINDER UNIT (BU)	RING MARKINGS													
288F	4 Binder Units	1	2	3	4							1-6 Ring Marking (72F Bundles)	Ultra HD MicroCore GQ288 and GQ432 w 72F subs		
432F	6 Binder Units	1	2	3	4	5	6								
576F	8 Binder Units	1	2	3	4	5	6	7	8						
864F	12 Binder Units	1	2	3	4	5	6	7	8	9	10			11	12
1152F	8 Binder Units	1	2	3	4	5	6	7	8					1-12 Ring Marking (144F Bundles)	Ultra HD MicroCore GQ432 and GQ576 w 144F subs
1728F	12 Binder Units	1	2	3	4	5	6	7	8	9	10	11	12		