

SpiderWeb Ribbon Technology

## Sub-unitized Premise MicroCore<sup>®</sup> 3.0 with SpiderWeb<sup>®</sup> Ribbon (SWR<sup>®</sup>) Technology

The third generation of AFL's Sub-Unitized Premise MicroCore Cable with SWR Technology is another astounding evolution of high performance premise cabling. Enabling even greater pathway density than our 2.0 version, the 3.0 revolutionizes cable deployment and allows the end user to realize savings in space, routing infrastructures and fiber management. Combining the highest quality materials with rigorous testing to industry standards, this generation builds on the same quality of construction as the previous versions of our Sub-Unitized Premise MicroCore cables.

Additionally, this version features stand-alone sub cables. Each sub cable is independently qualified and is suitable for individual routing paths within the rack/panel architecture. This flexibility of design and deployment is not available in comparable high-density designs. Designed for direct termination and supportive of both single-fiber and multi-fiber architectures, this cable family is capable of serving as the backbone in any deployed system.

SpiderWeb Ribbon is a bonded fiber design allowing for either a highly efficient ribbonizing application or for individual fiber break-outs. This flexibility allows for the application of a single cable design to cover a diverse set of applications. High density round designs allow for the most efficient use of space and materials, resulting in a cost-effective solution.

### Applications

- In-building cable runs where space is a premium
- Trunk applications where flexibility and small bend radii are required to route cable
- High-density cable areas like data centers and central offices
- Lower cost cable runs where easy handling of tight buffered fibers not needed because cable will be spliced to factory terminated pigtails

### Features

- Plenum NFPA 262 Rated
- Tested to meet or exceed EIA/TIA 568-B3, Telcordia GR-409-CORE (Issue 2 - Horizontal Backbone Cables) and ANSI/ICEA S-83-596
- CSA 22.2#232 (FT6)
- Compliant to Directive 2002/95/EC (RoHS)
- Flexible dielectric FRP central strength member
- All aramid tensile strength members within sub-units

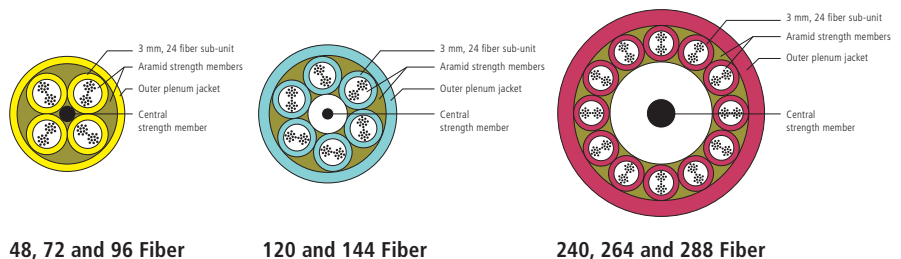
### Benefits

- High fiber density—more channels in less space
- No preferential bend direction typically found in stacked ribbon designs
- Small diameter/superior bend performance
- Each sub-unit can stand alone as a rated cable
- Sub-units are suitable for direct termination with round boot MPO

### Temperature Specifications

TEMPERATURE RANGE	
INSTALLATION	0°C to +60°C
OPERATION	0°C to +70°C
STORAGE	-40°C to +70°C

### Cable Components



48, 72 and 96 Fiber

120 and 144 Fiber

240, 264 and 288 Fiber

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### Mechanical Data

NO. OF SUBS	NO. OF FILLERS	NOMINAL DIAMETER INCHES (MM)	WEIGHT LBS/1000 FT (KG/KM)	TENSION LBS (N)		BENDING RADIUS INCHES (CM)	
				INSTALLATION	LONG TERM	INSTALLATION	LONG TERM
1	3	0.40 (10.2)	60 (90)	150 (670)	45 (200)	6.0 (15.3)	4.0 (10.2)
2	2	0.40 (10.2)	60 (90)	150 (670)	45 (200)	6.0 (15.3)	4.0 (10.2)
3	1	0.40 (10.2)	60 (90)	150 (670)	45 (200)	6.0 (15.3)	4.0 (10.2)
4	0	0.40 (10.2)	60 (90)	150 (670)	45 (200)	6.0 (15.3)	4.0 (10.2)
5	1	0.50 (12.7)	107 (160)	150 (670)	45 (200)	7.5 (19.1)	5.0 (12.7)
6	0	0.50 (12.7)	107 (160)	150 (670)	45 (200)	7.5 (19.1)	5.0 (12.7)
7	2	0.61 (15.5)	171 (255)	150 (670)	45 (200)	9.2 (23.5)	6.1 (15.5)
8	1	0.61 (15.5)	171 (255)	150 (670)	45 (200)	9.2 (23.5)	6.1 (15.5)
9	0	0.61 (15.5)	171 (255)	150 (670)	45 (200)	9.2 (23.5)	6.1 (15.5)
10	2	0.72 (18.4)	218 (325)	150 (670)	45 (200)	11.0 (27.6)	7.2 (18.4)
11	1	0.72 (18.4)	218 (325)	150 (670)	45 (200)	11.0 (27.6)	7.2 (18.4)
12	0	0.72 (18.4)	218 (325)	150 (670)	45 (200)	11.0 (27.6)	7.2 (18.4)

### SWR 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
(L) AFL Bend-Insensitive OM3 50 µm	OM3	3	1.2	N/A	1,500	500	2,000	1,000	550	300	—
(C) AFL Bend-Insensitive OM4 50 µm	OM4	3	1.2	N/A	3,500	500	4,700	1,040	550	550	—
(P) AFL Bend-Insensitive Single-mode (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

### Ordering Information

CABLE TYPE	FIBER COUNT	NO. OF SUBS	NO. OF FILLERS	AFL NO.			
				SINGLE-MODE	OM3	OM4	
12 Fiber Subunit	12	1	3	GQ012P301##R:C4C	GQ012L301##S:C4C	GQ012C301##S:C4C	
	24	2	2	GQ024P301##R:C4C	GQ024L301##S:C4C	GQ024C301##S:C4C	
	36	3	1	GQ036P301##R:C4C	GQ036L301##S:C4C	GQ036C301##S:C4C	
	48	4	0	GQ048P301##R:C4C	GQ048L301##S:C4C	GQ048C301##S:C4C	
	60	5	1	GQ060P301##R:C6C	GQ060L301##S:C6C	GQ060C301##S:C6C	
	72	6	0	GQ072P301##R:C6C	GQ072L301##S:C6C	GQ072C301##S:C6C	
	84	7	2	GQ084P301##R:C9C	GQ084L301##S:C9C	GQ084C301##S:C9C	
	96	8	1	GQ096P301##R:C9C	GQ096L301##S:C9C	GQ096C301##S:C9C	
	108	9	0	GQ108P301##R:C9C	GQ108L301##S:C9C	GQ108C301##S:C9C	
	120	10	2	GQ120P301##R:CCC	GQ120L301##S:CCC	GQ120C301##S:CCC	
	132	11	1	GQ132P301##R:CCC	GQ132L301##S:CCC	GQ132C301##S:CCC	
	144	12	0	GQ144P301##R:CCC	GQ144L301##S:CCC	GQ144C301##S:CCC	
	24 Fiber Subunit	24	1	3	GQ024P301##R:O4C	GQ024L301##S:O4C	GQ024C301##S:O4C
		48	2	2	GQ048P301##R:O4C	GQ048L301##S:O4C	GQ048C301##S:O4C
72		3	1	GQ072P301##R:O4C	GQ072L301##S:O4C	GQ072C301##S:O4C	
96		4	0	GQ096P301##R:O4C	GQ096L301##S:O4C	GQ096C301##S:O4C	
120		5	1	GQ120P301##R:O6C	GQ120L301##S:O6C	GQ120C301##S:O6C	
144		6	0	GQ144P301##R:O6C	GQ144L301##S:O6C	GQ144C301##S:O6C	
168		7	2	GQ168P301##R:O9C	GQ168L301##S:O9C	GQ168C301##S:O9C	
192		8	1	GQ192P301##R:O9C	GQ192L301##S:O9C	GQ192C301##S:O9C	
216		9	0	GQ216P301##R:O9C	GQ216L301##S:O9C	GQ216C301##S:O9C	
240		10	2	GQ240P301##R:OCC	GQ240L301##S:OCC	GQ240C301##S:OCC	
264		11	1	GQ264P301##R:OCC	GQ264L301##S:OCC	GQ264C301##S:OCC	
288		12	0	GQ288P301##R:OCC	GQ288L301##S:OCC	GQ288C301##S:OCC	

#### Notes:

- Replace first # with number corresponding to desired jacket color from Cable Jacket Color Options table below.
- Replace second # with number corresponding to desired subunit color from Cable Jacket Color Options table below.

### Cable Jacket Color Options

1 - Blue	8 - Black
2 - Orange	9 - Yellow (SM)
3 - Green	A - Violet
4 - Brown	B - Rose
5 - Slate	C - Aqua (OM3 and OM4)
6 - White	K - Erika Violet (OM4)
7 - Red	L - Lime