**NEW**
SWR Technology

SpiderWeb Ribbon Technology

Sub-unitized Premise MicroCore® *3.0* with SpiderWeb Ribbon® (SWR®) 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.
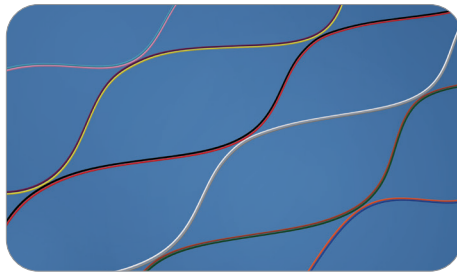
Additionally, this version features stand-alone sub cables. Each sub cable is independently qualified and is suitable for individual routing paths within the rack/panel architecture. This flexibility of design and deployment is not available in comparable high-density designs. Designed for direct termination 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.
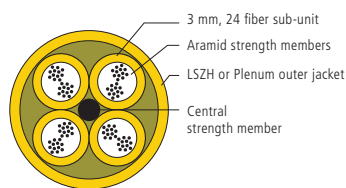
Applications

- 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
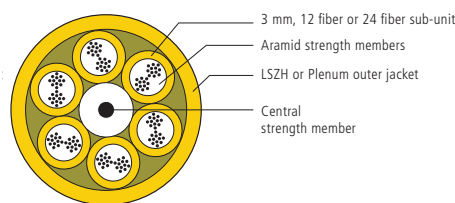
Features

- SpiderWeb Ribbon technology allows for a highly efficient ribbonizing application or for individual fiber break-outs
- Each sub-unit can stand alone as a rated cable
- 12-fiber sub-units with 12-144 fiber counts
- 24-fiber sub-units with 24-288 fiber counts
- High fiber density—more channels in less space
- No preferential bend direction typically found in stacked ribbon design
- Small diameter/superior bend performance
- LSZH or Plenum flame-rated jacket
- All aramid tensile strength members around core cable for ease of attaching pulling-eye; aramid within core for use with MT termination

Cable Components

3 mm, 24 fiber sub-unit
Aramid strength members
LSZH or Plenum outer jacket
Central strength member

24, 48, 72 and 96 Fiber

3 mm, 12 fiber or 24 fiber sub-unit
Aramid strength members
LSZH or Plenum outer jacket
Central strength member

72 and 144 Fiber

3 mm, 24 fiber sub-unit
Aramid strength members
LSZH or Plenum outer jacket
Central strength member

144 and 288 Fiber

1
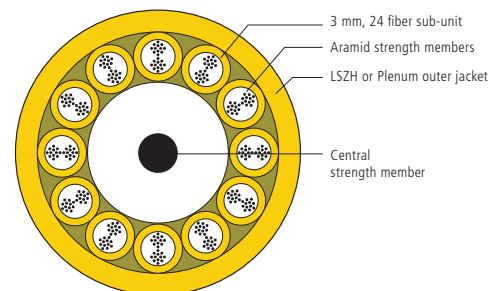
Sub-unitized Premise MicroCore® *3.0* with SpiderWeb Ribbon® Technology

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	0.47 (11.9)	107 (160)	150 (670)	45 (200)	7.1 (17.9)	4.7 (11.9)
6	0	0.47 (11.9)	107 (160)	150 (670)	45 (200)	7.1 (17.9)	4.7 (11.9)
7	2	0.56 (14.3)	171 (255)	150 (670)	45 (200)	8.4 (21.5)	5.6 (14.3)
8	1	0.56 (14.3)	171 (255)	150 (670)	45 (200)	8.4 (21.5)	5.6 (14.3)
9	0	0.56 (14.3)	171 (255)	150 (670)	45 (200)	8.4 (21.5)	5.6 (14.3)
10	2	0.62 (15.7)	218 (325)	150 (670)	45 (200)	9.3 (23.6)	6.2 (15.7)
11	1	0.62 (15.7)	218 (325)	150 (670)	45 (200)	9.3 (23.6)	6.2 (15.7)
12	0	0.62 (15.7)	218 (325)	150 (670)	45 (200)	9.3 (23.6)	6.2 (15.7)

SWR Fiber Specifications

CORE SIZE/FIBER TYPE	ISO/IEC	MAXIMUM ATTENUATION (dB/km)			OVERFILL LAUNCH MIN. BANDWIDTH (MHz•km)		EMBc (MHz•km)	GIGABIT ETHERNET MAX. LINK DISTANCE (meters)		10 GIGABIT ETHERNET MAX. LINK DISTANCE (meters)	
		850 nm	1300 nm	1550 nm	850 nm	1300 nm		850 nm	1300 nm	850 nm	1300 nm
(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

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

Qualifications

GOVERNING BODY	STANDARD CODE	COMPONENT
NFPA	262 (ONFP) / FT6	Plenum Jacket
IEC	60332, 60754, 61034	LSZH/OFNR-LS Jacket
Telcordia	GR-409-CORE	Jacket
EIA/TIA	568	Jacket
ICEA		Jacket
RoHS	REACH	Jacket

Temperature Specifications

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

Contact AFL for further details.

Sub-unitized Premise MicroCore® *3.0* with SpiderWeb Ribbon® Technology

Ordering Information

CABLE TYPE	FIBER COUNT	NO. OF SUBS	NO. OF FILLERS	AFL NO.	
				SINGLE-MODE	
				PLENUM	LSZH
12 Fiber Subunit	12	1	3	GQ012P301##R:C4C	GE012P301##R:C4C
	24	2	2	GQ024P301##R:C4C	GE024P301##R:C4C
	36	3	1	GQ036P301##R:C4C	GE036P301##R:C4C
	48	4	0	GQ048P301##R:C4C	GE048P301##R:C4C
	60	5	1	GQ060P301##R:C6C	GE060P301##R:C6C
	72	6	0	GQ072P301##R:C6C	GE072P301##R:C6C
	84	7	1	GQ084P301##R:C8C	GE084P301##R:C8C
	96	8	0	GQ096P301##R:C8C	GE096P301##R:C8C
	120	10	2	GQ120P301##R:CCC	GE120P301##R:CCC
	132	11	1	GQ132P301##R:CCC	GE132P301##R:CCC
	144	12	0	GQ144P301##R:CCC	GE144P301##R:CCC
24 Fiber Subunit	24	1	3	GQ024P301##R:O4C	GE024P301##R:O4C
	48	2	2	GQ048P301##R:O4C	GE048P301##R:O4C
	72	3	1	GQ072P301##R:O4C	GE072P301##R:O4C
	96	4	0	GQ096P301##R:O4C	GE096P301##R:O4C
	120	5	1	GQ120P301##R:O6C	GE120P301##R:O6C
	144	6	0	GQ144P301##R:O6C	GE144P301##R:O6C
	168	7	2	GQ168P301##R:O9C	GE168P301##R:O9C
	192	8	1	GQ192P301##R:O9C	GE192P301##R:O9C
	216	9	0	GQ216P301##R:O9C	GE216P301##R:O9C
	240	10	2	GQ240P301##R:OCC	GE240P301##R:OCC
	264	11	1	GQ264P301##R:OCC	GE264P301##R:OCC
	288	12	0	GQ288P301##R:OCC	GE288P301##R:OCC

Notes:

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