

Ruggedized MicroCore® Cable with SpiderWeb Ribbon® Technology

AFL Ruggedized MicroCore with SpiderWeb Ribbon (SWR®) Technology is the next generation of maximizing fiber density in AFL's line of high density data center cables. Ruggedized MicroCore is an industry-leading alternative to a traditional inside plant central loose tube ribbon cable. SWR technology eliminates concerns associated with edge fiber stresses due to preferential bend of encapsulated ribbons. These cables consists of an OFNP/FT6 (NFPA 262) or LSZH (including ONFR-LS/FT4), 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.

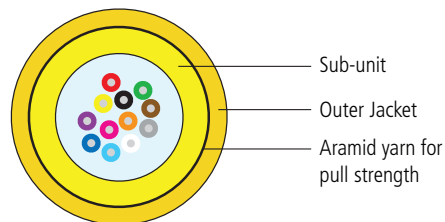
Features

- SpiderWeb Ribbon (SWR) optical fiber technology
- Fiber counts 12 to 144
- Plenum or LSZH Riser options
- 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
- Installation tension rating of 150 lbs.

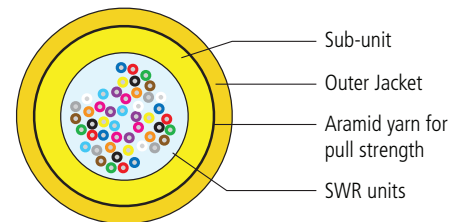
Applications

- Headend termination to a fiber "backbone"
- Termination of fiber rack systems
- Intra-building "backbones"
- MTP/MPO or MTP to breakout terminations

Cable Components



SWR Ruggedized 12 fiber



SWR Ruggedized 48 fiber

SWR Fiber Specifications

CORE SIZE/FIBER TYPE	ISO/IEC	MAXIMUM ATTENUATION (dB/km)			OVERFILL LAUNCH MIN. BANDWIDTH (MHz•km)		EMB _c (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



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Ordering Information

NO. OF FIBERS	AFL NO.	
	SINGLE-MODE	
	PLENUM	LSZH
12	RQ012P301##R	RE012P301##R
24	RQ024P301##R	RE024P301##R
36	RQ036P381##R	RE036P381##R
48	RQ048P401##R	RE048P401##R
72	RQ072P451##R	RE072P481##R
96	RQ096P581##R	RE096P581##R
108	RQ108P621##R	RE108P621##R
120	RQ120P721##R	RE120P721##R
144	RQ144P721##R	RE144P721##R

Outer Jacket Color – Replace hashtag (#) in AFL number with number in the Cable Jacket Color table below.

Mechanical Data

NO. OF FIBERS	NOMINAL DIAMETER inches (mm)	NOMINAL SUB-UNIT DIAMETER inches (mm)	WEIGHT lbs/1000 ft (kg/km)	TENSION lbs (N)		BENDING RADIUS inches (cm)	
				INSTALLATION	LONG TERM	INSTALLATION	LONG TERM
12	0.19 (4.8)	0.12 (3.0)	15 (22)	150 (660)	45 (200)	2.9 (7.2)	1.9 (4.8)
24	0.19 (4.8)	0.12 (3.0)	15 (22)	150 (660)	45 (200)	2.9 (7.2)	1.9 (4.8)
36	0.22 (5.6)	0.15 (3.8)	21 (31)	150 (660)	45 (200)	3.3 (8.4)	2.2 (5.6)
48	0.22 (5.6)	0.15 (3.8)	22 (32)	150 (660)	45 (200)	3.3 (8.4)	2.2 (5.6)
72	0.25 (6.4)	0.19 (4.8)	30 (45)	150 (660)	45 (200)	3.8 (9.6)	2.5 (6.4)
96	0.31 (7.8)	0.23 (5.8)	44 (65)	150 (660)	45 (200)	4.7 (11.7)	3.1 (7.8)
108	0.35 (9.0)	0.24 (6.2)	58 (86)	150 (660)	45 (200)	5.3 (13.5)	3.5 (9.0)
120	0.39 (10.0)	0.28 (7.2)	73 (109)	150 (660)	45 (200)	5.9 (15.0)	3.9 (10.0)
144	0.39 (10.0)	0.28 (7.2)	74 (110)	150 (660)	45 (200)	5.9 (15.0)	3.9 (10.0)

Cable Jacket Color Options

1 - Blue	8 - Black
2 - Orange	9 - Yellow
3 - Green	A - Violet
4 - Brown	B - Rose
5 - Slate	C - Aqua
6 - White	K - Erika Violet (RAL 4003)
7 - Red	

Qualifications

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

Temperature Specifications

	TEMPERATURE RANGE	
	PLENUM	LSZH
INSTALLATION	0°C to +60°C	0°C to +60°C
OPERATION	0°C to +70°C	-20°C to +70°C
STORAGE	-40°C to +70°C	-40°C to +70°C

Contact AFL for further details.