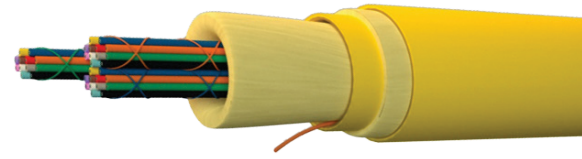


Ruggedized MicroCore® Cable

AFL Ruggedized MicroCore (CPR) 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 core loose tube ribbon cable. Both standard 250 µm based fiber and AFL revolutionary Spiderweb Ribbon® Technology designs are available. SWR® technology eliminates concerns associated with edge fiber stresses due to preferential bend of encapsulated ribbons. These cables consist of OFNP/FT6 (NFPA 262) or LSZH (including ONFR-ST1/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.



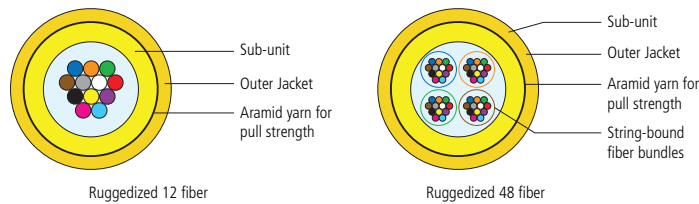
Features

- Available with 250 µm bare fiber or SpiderWeb Ribbon (SWR) optical fiber technology
- Bare Fiber counts 6 to 72
- SWR Fiber counts 12 to 144
- 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



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
(6) 62.5 Giga-Link™ 300	OM1	3.5	1.2	N/A	200	600	N/A	300	550	32	–
(5) 50 Giga-Link™ 600	OM2	3.5	1.5	N/A	500	500	N/A	600	600	82	–
(L) 50 Laser-Link 300	OM3	3.0	1.2	N/A	1,500	500	2,000	1,000	550	300	–
(C) 50 Laser-Link 550	OM4	3.0	1.2	N/A	3,500	500	4,700	1,040	550	550	–
(W) AFL Wideband Multimode	OM5	3.0	1.2	N/A	3,500	500	4,700	1,040	550	550	–
(9) 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
(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

continued
→

Ruggedized MicroCore® Cable

Mechanical Data

No. of Fibers	AFL No.		Nominal Diameter inches (mm)	Nominal Sub-Unit inches (mm)	Weight lbs/1000 ft (kg/km)	Tension		Bending Radius	
	Plenum	Riser				Installation lbs (N)	Long Term lbs (N)	Installation inches (cm)	Long Term inches (cm)
6	RQ006*301##B	RE006*301##B	0.19 (4.8)	0.12 (3.0)	15 (22)	150 (660)	45 (200)	2.9 (7.2)	1.9 (4.8)
8	RQ008*301##B	RE008*301##B	0.19 (4.8)	0.12 (3.0)	15 (22)	150 (660)	45 (200)	2.9 (7.2)	1.9 (4.8)
12	RQ012*301##\$	RE012*301##\$	0.19 (4.8)	0.12 (3.0)	15 (22)	150 (660)	45 (200)	2.9 (7.2)	1.9 (4.8)
24	RQ024*301##\$	RE024*301##\$	0.19 (4.8)	0.12 (3.0)	15 (22)	150 (660)	45 (200)	2.9 (7.2)	1.9 (4.8)
48	RQ048*401##\$	RE048*401##\$	0.22 (5.6)	0.16 (4.0)	22 (32)	150 (660)	45 (200)	3.3 (8.4)	2.2 (5.6)
72	RQ072*451##\$	RE072*481##\$	0.25 (6.4)	0.18 (4.5)	30 (45)	150 (660)	45 (200)	3.8 (9.6)	2.5 (6.4)
96	RQ096P581##R	RE096P581##R	0.31 (7.8)	0.23 (5.8)	44 (65)	150 (660)	45 (200)	4.7 (11.7)	3.1 (7.8)
144	RQ144P721##R	RE144P721##R	0.39 (10.0)	0.28 (7.2)	74 (110)	150 (660)	45 (200)	5.9 (15.0)	3.9 (10.0)

* Fiber Types – Replace asterisk (*) in AFL number with number in the Fiber Specifications table on previous page

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

\$ Fiber Configuration– Replace dollar symbol (\$) with **B** for standard bare fiber or **R** for AFL Spider Web Ribbon®

Cable Jacket Color Options

Color Codes	
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	L - Lime

Qualifications

Governing Body	Standard Code	Component
CE	B2ca-s1a,d0,a1 or Cca-s1a,d2,a1	Cable
NFPA	262 (OFNP) / FT6	Plenum Jacket
IEC	60332, 60754, 61034	LSZH/OFNR-ST1 Jacket
Telcordia	GR-409-CORE	Jacket
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

CPR Certifications

AFL No.	CPR Certification
RE006*301##B	B2ca-s1a,d0,a1
RE008*301##B	B2ca-s1a,d0,a1
RE012*301##\$	B2ca-s1a,d0,a1
RE024*301##\$	B2ca-s1a,d0,a1
RE048*401##\$	B2ca-s1a,d1,a1
RE072*481##\$	B2ca-s1a,d1,a1
RE096P581##R	B2ca-s1a,d0,a1
RE144P721##R	Cca-s1a,d2,a1

Contact AFL for further details.