

## Ruggedized MicroCore® Cable

AFL Ruggedized MicroCore 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. Ruggedized MicroCore with bare fiber eliminates concerns associated with edge fiber stresses due to preferential bend of encapsulated ribbons. These cables consist 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.

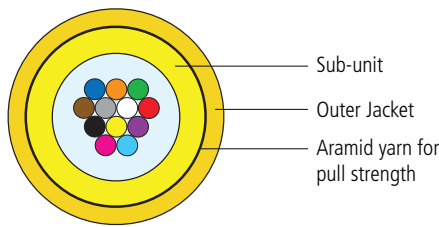
### Features

- Fiber counts 8 to 72
- Plenum or LSZH Riser options
- Flame rated
- Installation tension rating of 150 lbs.

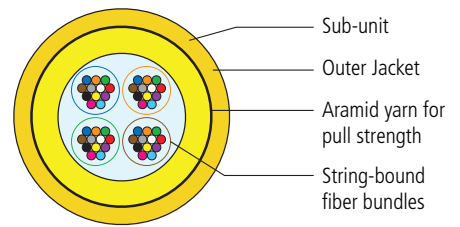
### Applications

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

### Cable Components



Ruggedized 12 fiber



Ruggedized 48 fiber

### 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
(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	N/A



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### Ordering Information

NO. OF FIBERS	AFL NO.		NOMINAL DIAMETER inches (mm)	NOMINAL SUB-UNIT DIAMETER inches (mm)	WEIGHT lbs/1000 ft (kg/km)	TENSION lbs (N)		BENDING RADIUS inches (cm)	
	PLENUM	LSZH				INSTALLATION	LONG TERM	INSTALLATION	LONG TERM
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##B	RE012★301##B	0.19 (4.8)	0.12 (3.0)	15 (22)	150 (660)	45 (200)	2.9 (7.2)	1.9 (4.8)
16	RQ016★301##B	RE016★301##B	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##B	RE024★301##B	0.19 (4.8)	0.12 (3.0)	15 (22)	150 (660)	45 (200)	2.9 (7.2)	1.9 (4.8)
32	RQ032★381##B	RE032★381##B	0.22 (5.6)	0.15 (3.8)	19 (29)	150 (660)	45 (200)	3.3 (8.4)	2.2 (5.6)
36	RQ036★381##B	RE036★381##B	0.22 (5.6)	0.15 (3.8)	21 (31)	150 (660)	45 (200)	3.3 (8.4)	2.2 (5.6)
48	RQ048★401##B	RE048★401##B	0.22 (5.6)	0.16 (4.0)	22 (32)	150 (660)	45 (200)	3.3 (8.4)	2.2 (5.6)
64	RQ064★451##B	RE064★451##B	0.24 (6.2)	0.18 (4.5)	28 (42)	150 (660)	45 (200)	3.6 (9.3)	2.4 (6.2)
72	RQ072★451##B	RE072★481##B	0.25 (6.4)	0.19 (4.8)	30 (45)	150 (660)	45 (200)	3.8 (9.6)	2.5 (6.4)

★ 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.

### 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	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
<b>INSTALLATION</b>	- 0°C to +60°C	- 0°C to +60°C
<b>OPERATION</b>	- 0°C to +70°C	- 20°C to +70°C
<b>STORAGE</b>	- 40°C to +70°C	- 40°C to +70°C

Contact AFL for further details.