

## QE-Series Indoor/Outdoor Riser Sub-unitized MicroCore® Cable – CPR Certified

AFL continues to expand the Indoor/Outdoor MicroCore family with the QE-Series CPR-certified fiber optic cable. Waterblocked sub-units are helically stranded to provide sub-unitized cables ranging from 24 to 288 fibers. These cables are rated for low smoke, zero halogen (LSZH) environments while also maintaining an OFNR rating. Both the sub-unit jackets and outer sheath contain a UV stabilizer and anti-fungus protection for use in outdoor applications.

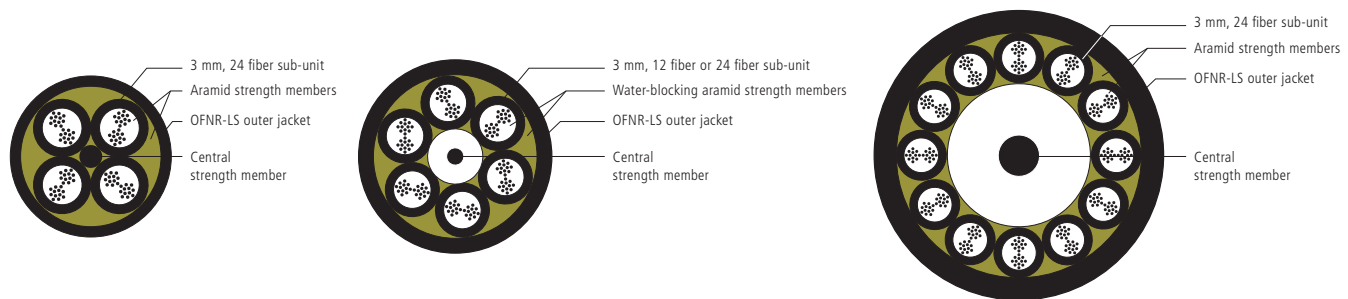
### Features

- Available with 24 to 288 fibers
- Water-blocked sub-units
- Moisture-resistant, fungus-resistant and UV-resistant sub-unit jackets and outer sheath
- CPR rated: B2CA

### Applications

- Low smoke, zero halogen inside plant and outside plant environments
- ONFR inside plant and outside plant environments

### Cable Components



### Fiber Specifications

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



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## Mechanical Data—Non-Armored

CABLE TYPE	AFL NO.	FIBER COUNT	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
12 Fiber Subunit	QE024*3018#B:C4C-B2CA	24	2	2	0.39 (9.9)	52 (77)	300 (1320)	90 (400)	5.8 (14.8)	3.9 (9.9)
	QE048*3018#B:C4C-B2CA	48	4	0	0.39 (9.9)	53 (79)	300 (1320)	90 (400)	5.8 (14.8)	3.9 (9.9)
	QE072*3018#B:C6C-B2CA	72	6	0	0.46 (11.6)	77 (115)	300 (1320)	90 (400)	6.9 (17.4)	4.6 (11.6)
	QE096*3018#B:C8C-B2CA	96	8	0	0.54 (13.7)	105 (155)	300 (1320)	90 (400)	8.1 (20.5)	5.4 (13.7)
	QE144*3018#B:CCC-B2CA	144	12	0	0.70 (17.8)	250 (370)	300 (1320)	90 (400)	10.5 (26.7)	7.0 (17.8)
24 Fiber Subunit	QE024*3018#B:O4C-B2CA	24	1	3	0.39 (9.9)	53 (79)	300 (1320)	90 (400)	5.8 (14.8)	3.9 (9.9)
	QE048*3018#B:O4C-B2CA	48	2	2	0.39 (9.9)	54 (80)	300 (1320)	90 (400)	5.8 (14.8)	3.9 (9.9)
	QE072*3018#B:O4C-B2CA	72	3	1	0.39 (9.9)	55 (82)	300 (1320)	90 (400)	5.8 (14.8)	3.9 (9.9)
	QE096*3018#B:O4C-B2CA	96	4	0	0.39 (9.9)	56 (83)	300 (1320)	90 (400)	5.8 (14.8)	3.9 (9.9)
	QE144*3018#B:O6C-B2CA	144	6	0	0.46 (11.6)	81 (120)	300 (1320)	90 (400)	6.9 (17.4)	4.6 (11.6)
	QE192*3018#B:O8C-B2CA	192	8	0	0.54 (13.7)	105 (155)	300 (1320)	90 (400)	8.1 (20.5)	5.4 (13.7)
	QE216*3018#B:O9C-B2CA	216	9	0	0.57 (14.5)	130 (190)	300 (1320)	90 (400)	8.5 (21.75)	5.7 (14.5)
QE288*3018#B:OCC-B2CA	288	12	0	0.70 (17.8)	260 (380)	300 (1320)	90 (400)	10.5 (26.7)	7.0 (17.8)	

\* Fiber Types – Replace asterisk (\*) in AFL number above with number in the Fiber Specifications table on previous page.  
 # Subunit Jacket Color – Replace hashtag (#) in AFL number with number in the Cable Jacket Color table below.  
 \*\* Item numbers represent AFL standard print and Black outer jacket. All jacket colors are UV stable and contain anti-fungal additive. For best performance, AFL recommends Black Outer Jacket.

### CPR Rating

NO. OF SUBUNITS	CPR STANDARD
Cables with 4-6 Subunits	B2ca-s1a,d0,a1
QE096 with 8 Subunits	B2ca-s1b,d1,a1
Cables with 8-12 Subunits	B2ca-s1a,d1,a1

### 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
CE	B2CA	Cable
Telcordia	GR-20-CORE GR-409-CORE	Water-Blocked Cabled Buffer Tube Core Sub-units
EIA/TIA	598-A	Sub-units
ICEA	S-104-696	Sub-units
RoHS	2002/95/EC	Cable

### Temperature Specifications

TEMPERATURE RANGE	
Installation	-10°C to +70°C
Operation	-40°C to +70°C
Storage	-40°C to +70°C

Contact AFL for further details.