

## Sub-unitized Premise MicroCore® Cable

Sub-unitized Premise MicroCore Cables are ideal for 12-144 fiber high performance premise installations where space is a premium. The round cross-sectional building blocks combine to provide a tight package, while enabling high density architecture. Each 12-fiber sub-unit consists of 250 μm colored fibers and aramid strength members enclosed by a high performance jacket. The sub-units are designed to be independently routed in FMS systems.

### Applications

- In-building cable runs where space is a premium
- Trunk applications where flexibility and small required bend radius are needed 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 pigtailed
- Trunk cables where MTP can be directly terminated on subunits

### Features

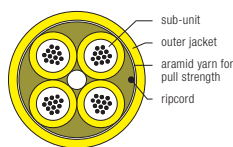
- Plenum NFPA 262 rated
- Riser UL 1666 rated
- LSZH performance verified to IEC 60754-2, 61034-2 and 60332-3-24
- Tested to meet or exceed EIA/TIA 568-B3, Telcordia GR-409-CORE and ANSI/ICEA S-83-596
- Flexible dielectric FRP central strength member in four position, 24 fiber designs and higher
- High performance fluoropolymer, PVC or LSZH outer jackets available
- No preferential bend typically found in stacked ribbon designs
- Small diameter/superior bend performance
- All aramid tensile strength members within sub-units
- Sub-units are suitable for direct termination with round boot MTP
- Compliant to Directive 2002/95/EC (RoHS)

### Cable Components

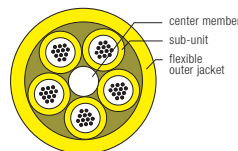
Key: Q=Plenum, R=Riser, E=LSZH



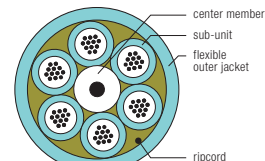
12 fiber sub-unit, Q E



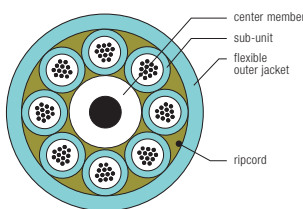
36 and 48 fiber, Q E



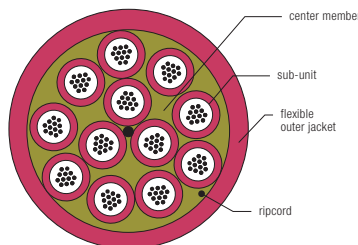
24-60 fiber, R



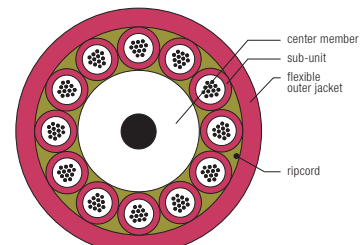
72 fiber, Q R E



96 fiber, Q R E



144-9 fiber, Q E



144 fiber, R



## Sub-unitized Premise MicroCore® Cable

### Mechanical Data

AFL NO.		FIBER COUNT	NOMINAL DIAMETER INCHES (MM)	WEIGHT LBS/1000FT (KG/KM)	TENSION LBS (N)		BENDING RADIUS INCHES (CM)		TEMPERATURE RANGE	
LSZH	PLENUM				INSTALL-ATION	LONG TERM	INSTALL-ATION	LONG TERM	OPERATING/ INSTALLATION	STORAGE
GE024★301##B:C4C	GQ024★301##B:C4C	24	0.38 (9.7)	54 (80)	150 (660)	45 (198)	5.7 (15.5)	3.8 (9.7)	0°C to +70°C	-40°C to +70°C
GE036★301##B:C4C	GQ036★301##B:C4C	36	0.38 (9.7)	54 (80)	150 (660)	45 (198)	5.7 (15.5)	3.8 (9.7)		
GE048★301##B:C4C	GQ048★301##B:C4C	48	0.38 (9.7)	54 (80)	150 (660)	45 (198)	5.7 (15.5)	3.8 (9.7)		
GE072★301##B:C6C	GQ072★301##B:C6C	72	0.44 (11.1)	84 (125)	150 (660)	45 (198)	6.6 (16.8)	4.4 (11.1)		
GE096★301##B:C8C	GQ096★301##B:C8C	96	0.52 (13.3)	118 (175)	150 (660)	45 (198)	7.8 (19.8)	5.2 (13.3)		
GE144★301##B:CCC	GQ144★301##B:CCC	144	0.59 (14.9)	124 (185)	150 (660)	45 (198)	5.8 (14.9)	8.8 (22.4)		

AFL NO.		FIBER COUNT	NOMINAL DIAMETER INCHES (MM)	WEIGHT LBS/1000FT (KG/KM)	TENSION LBS (N)		BENDING RADIUS INCHES (CM)		TEMPERATURE RANGE	
RISER					INSTALL-ATION	LONG TERM	INSTALL-ATION	LONG TERM	OPERATING/ INSTALLATION	STORAGE
GR024★311##B		24	0.40 (10.1)	54 (80)	300 (1320)	90 (396)	7.5 (19.1)	3.75 (9.5)	-10°C to +70°C	-40°C to +70°C
GR036★311##B		36	0.40 (10.1)	54 (80)	300 (1320)	90 (396)	7.5 (19.1)	3.75 (9.5)		
GR048★311##B		48	0.40 (10.1)	54 (80)	300 (1320)	90 (396)	7.5 (19.1)	3.75 (9.5)		
GR072★311##B		72	0.44 (11.1)	84 (125)	300 (1320)	90 (396)	9 (22.9)	4.5 (11.4)		
GR096★311##B		96	0.52 (13.3)	118 (175)	300 (1320)	90 (396)	10 (25.4)	5 (12.7)		
GR144★311##B		144	0.69 (17.4)	155 (230)	300 (1320)	90 (396)	14 (35.6)	7 (17.8)		

★ 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
3 - Green	A - Violet
4 - Brown	B - Rose
5 - Slate	C - Aqua
6 - White	K - Erika Violet (RAL 4003)
7 - Red	

### 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 MIN. LINK DISTANCE (METERS)		10 GIGABIT ETHERNET MIN. 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
(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

