



## Copper/Fiber Composite Cable

Rugged easy to use composite cable consisting of flexible stranded Copper conductors and integrating communications links utilizing fiber optic technologies. The breakout design provides additional protection for both the copper and fiber channels by individually protecting each with insulated jackets and all-dielectric strength members. For applications requiring remote low-voltage power and high-speed communications, these designs provide an efficient single-installation option where space is of a premium and devices are not easily accessed.

### Applications

- Remote application of Low-Voltage power
- Security networks
- IP enable appliances
- Wireless Access Points

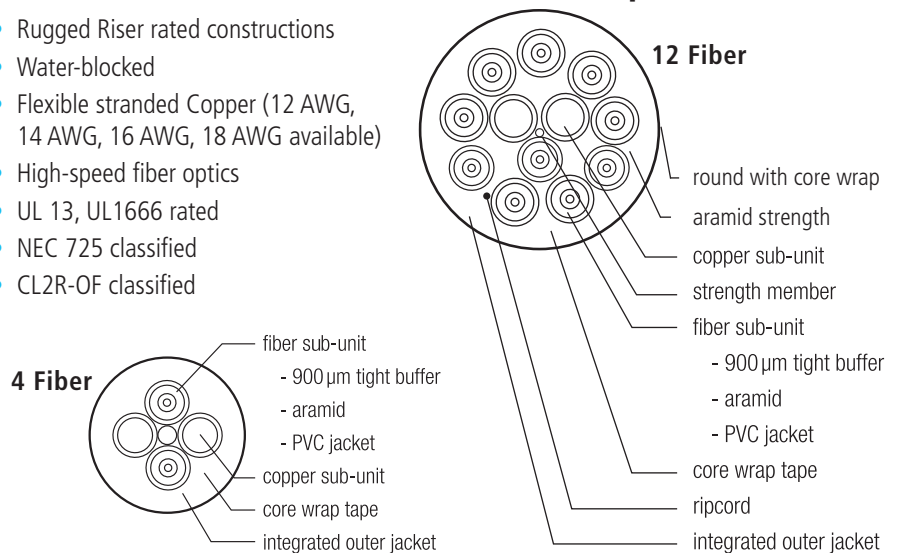
### Standards

- Telcordia GR-409-CORE
- ICEA S-104-696
- MSHA approved

### Features

- Rugged Riser rated constructions
- Water-blocked
- Flexible stranded Copper (12 AWG, 14 AWG, 16 AWG, 18 AWG available)
- High-speed fiber optics
- UL 13, UL1666 rated
- NEC 725 classified
- CL2R-OF classified

### 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 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	550	32	—
(5) 50 Giga-Link™ 600	OM2	3.5	1.5	N/A	500	500	N/A	600	600	82	—
(A) 50 Laser-Link 150	OM2	3.0	1.2	N/A	700	500	950	800	550	150	—
(L) 50 Laser-Link 300	OM3	3.0	1.2	N/A	1500	500	2000	1000	550	300	—
(C) 50 Laser-Link 550	OM4	3.0	1.2	N/A	3500	550	4700	1040	550	550	—
(K) AFL G.657.A1 Single-mode	OS2	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5000	N/A	10,000
(9) SM	OS2	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5,000	N/A	10,000

### Temperature Specifications

TEMPERATURE RANGE	
INSTALLATION	-20°C to +70°C
OPERATING	-40°C to +70°C
STORAGE	-40°C to +70°C



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### Mechanical Data

AFL NO.	FIBER COUNT	NOMINAL DIAMETER	WEIGHT	TENSION LBS (N)		BENDING RADIUS INCHES (CM)	
		INCHES (MM)	LBS/1000FT (KG/KM)	INSTALLATION	LONG TERM	INSTALLATION	LONG TERM
BR004X301#0C-xFF★/yCC	4	.39 (9.9)	63 (93)	300 (1334)	90 (400)	5.7 (14.5)	3.8 (9.7)
BR006X301#0C-xFF★/yCC	6	.46 (11.7)	87 (130)	300 (1334)	90 (400)	6.75 (17.2)	4.5 (11.4)
BR008X301#0C-xFF★/yCC	8	.54 (13.6)	120 (178)	300 (1334)	90 (400)	7.95 (20)	5.3 (13.5)
BR012X301#0C-xFF★/yCC	12	.59 (15.1)	200 (298)	300 (1334)	90 (400)	9.45 (24)	6.3 (16)

★ 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	

### Cable Length - Reel Size

ITEM	REEL F
Reel Height (inches)	42
Reel Outside Width (inches)	36
Drum Diameter (inches)	23
Reel Weight (lbs)	148
<b>CAPACITY: METERS (FEET)</b>	
4 Fiber Breakout	1,500 / (5,000)
6 Fiber Breakout	1,500 / (5,000)
8 Fiber Breakout	1,500 / (5,000)
12 Fiber Breakout	1,500 / (5,000)

