

Indoor/Outdoor Plenum Distribution Cable

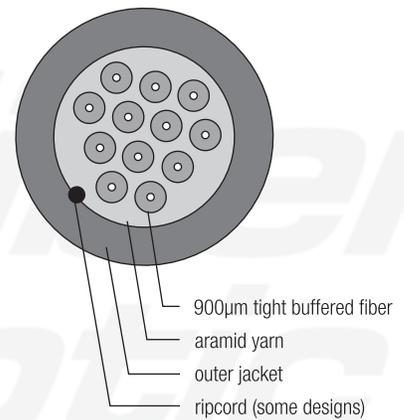
Indoor/Outdoor Plenum Distribution cables are specified for campus network cabling between buildings where interbuilding lengths are short enough that the installer can recognize savings from the lower costs of terminating tight buffered cables.

For indoor applications the cable is OFNP listed. For outdoor applications the cable is manufactured with an outer jacket that incorporates a UV stabilizer for protection against exposure to the sun plus an anti-fungus protection for use in underground applications.

Features

- Cables are water blocked and exceed water penetration requirements of ICEA S-104-696 and GR-20-CORE (this helps ensure that any damage to the cable and subsequent water ingress is restricted to a repairable length of several meters and minimizes overall replacement cost)
- Outer jacket is moisture-resistant, fungus-resistant and UV resistant suitable for outdoor use
- With an overall OFNP (Plenum) rating, this cable is suitable for installations in most spaces requiring UL flame ratings: Plenum, Riser, General Purpose and outside plant

Cable Components



Applications

- ICEA S-104-696
- Telcordia GR-409-Core Issue II Weatherized Cable
- EIA/TIA 568
- RoHS/REACH Compliant

Fiber Specifications

CORE SIZE/ FIBER TYPE	ISO/ IEC	MAXIMUM ATTENUATION (DB/KM)			OVERFILL LAUNCH MIN. BANDWIDTH (MHZ•KM)		EMB _c (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	-10°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	DIAMETER INCHES (MM)	WEIGHT	TENSILE STRENGTH LBS (N)		BEND RADIUS INCHES (CM)	
			LBS/1000FT (KG/KM)	INSTALLATION	LONG TERM	INSTALLATION	LONG TERM
KQ002★5418#1	2	0.21 (5.4)	19 (28)	300 (1335)	90 (400)	3.2 (8.1)	2.1 (5.4)
KQ004★5618#1	4	0.22 (5.6)	21 (31)	300 (1335)	90 (400)	3.30 (8.4)	2.2 (5.6)
KQ006★6418#1	6	0.25 (6.4)	26 (39)	300 (1335)	90 (400)	3.8 (9.6)	2.5 (6.4)
KQ012★7018#1	12	0.28 (7.0)	34 (51)	300 (1335)	90 (400)	4.1 (10.5)	2.8 (7.0)
KQ024★8218#1	24	0.33 (8.4)	42 (62)	300 (1335)	90 (400)	5.0 (19.6)	3.3 (13.0)

★ 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.

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	

Maximum Cable Length - Reel Size

ITEM	FIBER BOX*	REEL A	REEL B	REEL C	REEL D	REEL E
Reel/Box Height (inches)	15.13	16	24	30	34	34
Reel/Box Outside Width (inches)	13.0	15	17	15.25	21.25	20
Drum Diameter (inches)	8.0	8	12	12	12	24
Reel Weight (lbs)	6.0	10	23	34	44	48
CAPACITY: METERS (FEET)						
2 Fiber	305 (1,000)	1,000 (3,281)	3,200 (10,500)	5,000 (16,404)	—	—
4 Fiber	305 (1,000)	1,000 (3,281)	3,200 (10,500)	5,000 (16,404)	—	—
6 Fiber	305 (1,000)	—	2,400 (7,874)	4,000 (13,123)	5,000 (16,404)	—
8 Fiber	—	—	2,400 (7,874)	4,000 (13,123)	5,000 (16,404)	—
12 Fiber	—	—	1,300 (4,265)	2,100 (6,890)	3,900 (12,795)	—
18 Fiber	—	—	—	—	—	1,500 (4,921)
24 Fiber	—	—	—	—	—	1,500 (4,921)

* Add suffix "—XMFBX" to cable AFL number to specify "Fiber-In-A-Box" solution. "X" indicates length of cable in thousands of feet. Only available in standard lengths as indicated in chart above.

EXAMPLE: KQ0029541001—1MFBX

Would be the resulting AFL number for 3,000 feet of KQ002★541001 cable with 9/125µm single-mode fiber and the Fiber-In-A-Box solution. Refer to Fiber-In-A-Box data sheet.

