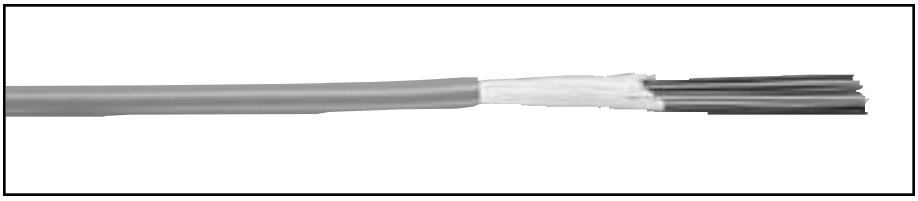
Premises Cables



General Cable has the right fiber optic cable for any premises application.

Applications: Premises cables with 900µm tight buffer constructions are built to withstand the continuous handling and difficult routing typical of building backbones. These fiber optic cables emphasize flexibility, handling, and proper fiber termination characteristics. This provides reliable and simple installations every time. These cables are used for intrabuilding vertical (backbone) and horizontal runs.

Range of Products: General Cable manufactures riser, plenum, and Low-Smoke, Zero-Halogen (LSZH) cables. This includes the common distribution designs as well as breakout style cables. Fiber counts range up to 96 fibers.

Features: Premises cables have an industry standard 900µm tight buffer for termination to connectors. The tight buffer diameter is tightly controlled to provide reliable, first time connections. Breakout cables utilize 2.4mm breakout dimensions for rugged environments and compatibility with connectors. All fibers are color coded and subgrouped (if necessary) for easy identification for handling.

As with all General Cable fiber optic cables, breakout kits are available for premises cables to reinforce and assist in preparing the fibers for termination.

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Breakout Plenum Cable	16
Premises Low-Smoke, Zero-Halogen (LSZH) Cable	17
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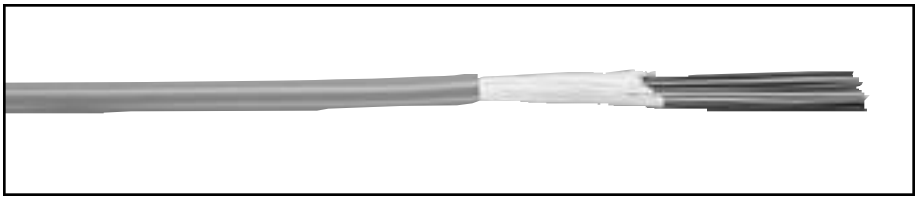
Premises Riser Cable

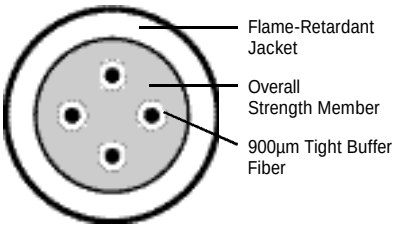
Type OFNR, CSA FT-4



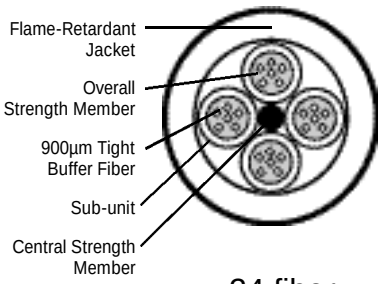
CATALOG NUMBER	FIBER COUNT	# OF SUB-UNITS	NOMINAL CABLE DIAMETER		NOMINAL CABLE WEIGHT		MAXIMUM TENSILE LOAD			
							INSTALLATION		IN-SERVICE	
			in	(mm)	lbs/1000'	(kg/km)	lbs	(N)	lbs	(N)
XX0021PNR	2	-	.188	(4.8)	13.5	(20.1)	225	(1000)	65	(290)
XX0041PNR	4	-	.201	(5.1)	15.7	(23.4)	225	(1000)	65	(290)
XX0061PNR	6	-	.215	(5.5)	18.0	(26.8)	225	(1000)	65	(290)
XX0081PNR	8	-	.223	(5.7)	19.8	(29.5)	245	(1090)	70	(310)
XX0101PNR	10	-	.240	(6.1)	22.6	(33.6)	320	(1425)	112	(500)
XX0121PNR	12	-	.245	(6.2)	24.1	(35.9)	320	(1425)	112	(500)
XX0181P1R	18	3	.460	(11.7)	76.1	(113.2)	600	(2670)	200	(890)
XX0241PNR	24	2	.281 x .486	(7.1 x 12.3)	63.7	(94.8)	500	(2224)	167	(743)
XX0241P1R	24	4	.518	(13.2)	84.0	(125.0)	800	(3560)	270	(1201)
XX0361P1R	36	6	.653	(16.6)	151.6	(225.6)	1000	(4448)	335	(1490)
XX0481P1R	48	4	.628	(16.0)	132.6	(197.3)	1000	(4448)	335	(1490)
XX0601P1R	60	5	.685	(17.4)	155.2	(231.0)	1200	(5338)	400	(1780)
XX0721P1R	72	6	.759	(19.3)	202.3	(301.1)	1500	(6672)	500	(2224)
XX0961P1R	96	8	.894	(22.7)	289.1	(430.2)	2000	(8896)	670	(2980)

XX Denotes fiber type

Typical Cross-Section



4 fiber



24 fiber

Product Construction

Fiber:

- 2 - 96 fibers
- 900µm tight buffer
- Color coding per TIA/EIA 598A

Central Strength Member:

- Epoxy/Glass Rod (above 12 fibers)

Overall Strength Member:

- Aramid fiber yarn

Jacket:

- Flame-retardant polyvinyl chloride (PVC)
- Sequential meter markings
- Orange Jacket - Multimode fibers
- Yellow Jacket - Singlemode fibers
- Sub-units are numbered for identification

Features:

- Lightweight, flexible design simplifies installation
- Tight buffer provides individual fiber protection
- Tight buffered fibers are easy to handle and strip for field connectorization

Performance:

- Temperature:
  Storage -40°C (-40°F) to +70°C (+158°F)
  Operating -20°C (-4°F) to +70°C (+158°F)
- Minimum Bend Radius:
  20 X OD - Installation
  10 X OD - In-Service
- Maximum Crush Resistance:
  850 lbs/in (1485 N/cm)
- Maximum Vertical Rise – 1,640 ft (500 m)

Applications:

- Intrabuilding voice or data communication back-bones
- UL Listed Type OFNR for installation in vertical riser and general horizontal applications when installed in accordance with NEC article 770-51 (b) and 770-53 (b)

Compliances:

- UL and c(UL) Listed Type OFNR
- CSA FT-4
- ANSI/TIA/EIA 568A
- ICEA S-83-596
- ETL Verified

Accessories:

- BOKP Breakout kits are suitable for Premises Riser Cables

RECOMMENDED FIBER TYPES

DESCRIPTION	FIBER TYPE	DIMENSIONS (mm)			MIN. BANDWIDTH (Mhz•km)		MAX. ATTENUATION (dB/km)	
		CORE	CLAD	COATING	850nm	1300nm	850/1300 nm	1310/1550 nm
Super/FDDI	CT	62.5	125	245	160	500	3.5/1.0	–
G300	CG	62.5	125	245	220	500	3.5/1.0	–
Super/50	BG	50.0	125	245	500	500	3.0/1.0	–
Super	AP	8.3	125	245	–	–	–	0.8/0.6

Note: Additional fiber types available. Reference the Fiber Specification and Selection on page 2.

c UL us LISTED

UL Listed Type OFNR

EIA TIA/EIA 568A

ETL

General Cable

Premises Plenum Cable

Type OFNP, CSA FT-6

Product Construction:

Fiber:
- 2 - 48 fibers
- 900µm tight buffer
- Color coding per TIA/EIA 598A

Central Strength Member:
- Epoxy/Glass Rod (above 12 fibers)

Overall Strength Member:
- Aramid fiber yarn

Jacket:
- Flame-retardant polyvinyl chloride (PVC) or fluoropolymer
- Sequential meter markings
- Orange Jacket - Multimode fibers
- Yellow Jacket - Singlemode fibers
- Sub-units are numbered for identification

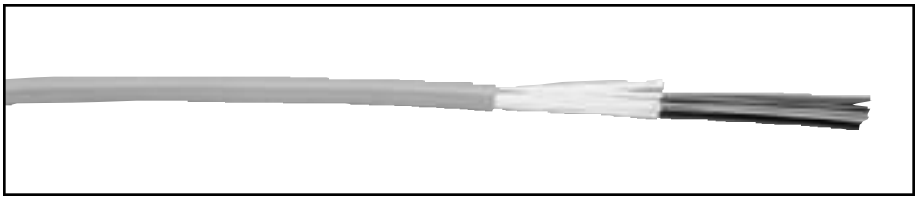
Features:
- Lightweight, flexible design simplifies installation
- Tight buffer provides individual fiber protection
- Tight buffered fibers are easy to handle and strip for field connectorization

Performance:
- Temperature:
  Storage -40˚C (-40˚F) to +70˚C (+158˚F)
  Operating 0˚C (+32˚F) to +70˚C (+158˚F)
- Minimum Bend Radius:
  20 X OD - Installation
  10 X OD - In-Service
- Maximum Crush Resistance:
  850 lbs/in (1485 N/cm)
- Maximum Vertical Rise – 1,640 ft (500 m)

Applications:
- Intrabuilding voice or data communication backbones
- UL Listed Type OFNP for installation in ducts, plenums, and other spaces used as environmental air returns when installed in accordance with NEC article 770-51 (a) and 770-53 (a)

Compliances:
- UL and c(UL) Listed Type OFNP
- CSA FT-6
- ANSI/TIA/EIA 568A
- ICEA S-83-596
- ETL Verified

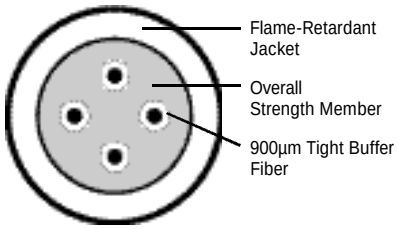
Accessories:
- BOKP Breakout kits are suitable for Premises Plenum Cables



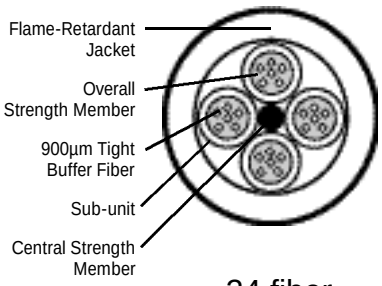
CATALOG NUMBER	FIBER COUNT	# OF SUB-UNITS	NOMINAL CABLE DIAMETER		NOMINAL CABLE WEIGHT		MAXIMUM TENSILE LOAD			
							INSTALLATION		IN-SERVICE	
			in	(mm)	lbs/1000'	(kg/km)	lbs	(N)	lbs	(N)
XX0021PNU	2	-	.171	(4.3)	11.7	(17.4)	225	(1000)	65	(290)
XX0041PNU	4	-	.181	(4.6)	13.7	(20.4)	225	(1000)	65	(290)
XX0061PNU	6	-	.195	(4.9)	16.0	(23.8)	225	(1000)	65	(290)
XX0081PNU	8	-	.205	(5.2)	18.0	(26.8)	245	(1090)	70	(311)
XX0121PNU	12	-	.227	(5.8)	22.7	(33.8)	320	(1423)	112	(500)
XX0181P1U	18	3	.497	(12.6)	110.0	(163.7)	600	(2670)	200	(890)
XX0241P1U	24	4	.541	(13.7)	117.8	(175.3)	800	(3560)	270	(1201)
XX0361P1D	36	6	.610	(15.5)	151.3	(225.2)	1000	(4448)	335	(1490)
XX0481P1D	48	4	.582	(14.8)	134.5	(200.2)	1000	(4448)	335	(1490)

XX Denotes fiber type

Typical Cross-Section



4 fiber



24 fiber

RECOMMENDED FIBER TYPES

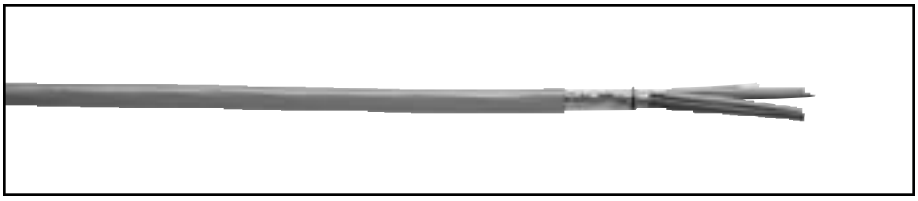
DESCRIPTION	FIBER TYPE	DIMENSIONS (mm)			MIN. BANDWIDTH (Mhz•km)		MAX. ATTENUATION (dB/km)	
		CORE	CLAD	COATING	850nm	1300nm	850/1300 nm	1310/1550 nm
Super/FDDI	CT	62.5	125	245	160	500	3.5/1.0	–
G300	CG	62.5	125	245	220	500	3.5/1.0	–
Super/50	BG	50.0	125	245	500	500	3.0/1.0	–
Super	AP	8.3	125	245	–	–	–	0.8/0.6

Note: Additional fiber types available. Reference the Fiber Specification and Selection on page 2.

General Cable

Breakout Riser Cable

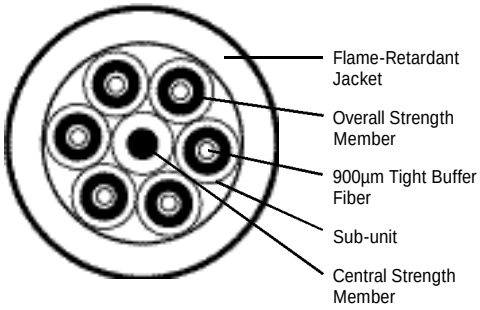
Type OFNR, CSA FT-4



CATALOG NUMBER	FIBER COUNT	# OF SUB-UNITS	NOMINAL CABLE DIAMETER		NOMINAL CABLE WEIGHT		MAXIMUM TENSILE LOAD			
							INSTALLATION		IN-SERVICE	
			in	(mm)	lbs/1000'	(kg/km)	lbs	(N)	lbs	(N)
XX0021B3R	2	2	.268	(6.8)	27.8	(41.4)	270	(1200)	110	(490)
XX0041B3R	4	4	.306	(7.8)	36.5	(54.3)	450	(2000)	180	(800)
XX0061B3R	6	6	.367	(9.3)	51.1	(76.0)	450	(2000)	180	(800)
XX0081B3R	8	8	.428	(10.9)	71.2	(106.0)	600	(2670)	200	(890)
XX0121B3R	12	12	.470	(11.9)	78.6	(117.0)	790	(3515)	270	(1200)
XX0181B3R	18	18	.556	(14.1)	110.8	(164.9)	1000	(4450)	400	(1780)
XX0241B3R	24	24	.646	(16.4)	153.1	(227.8)	1230	(5470)	450	(2000)

XX Denotes fiber type

Typical Cross-Section



Product Construction

Fiber:

- 2 - 24 fibers
- 900µm tight buffer
- Color coding per TTA/EIA 589A
- 2.4mm jacketed sub-units

Central Strength Member:

- Aramid yarn

Overall Strength Member:

- Aramid fiber yarn

Jacket:

- Flame-retardant polyvinyl chloride (PVC)
- Sequential meter markings
- Orange Jacket - Multimode fibers
- Yellow Jacket - Singlemode fibers

Features:

- Rugged individual fiber protection
- Easily terminated with fiber sub-units
- Heavy duty premises applications

Performance:

- Temperature:
  Storage -40°C (-40°F) to +70°C (+158°F)
  Operating -20°C (-4°F) to +70°C (+158°F)
- Minimum Bend Radius:
  20 X OD - Installation
  10 X OD - In-Service
- Maximum Crush Resistance:
  1000 lbs/in (1750 N/cm)
- Maximum Vertical Rise – 1,640 ft (500 m)

Applications:

- Intrabuilding voice or data communication back-bones
- UL Listed Type OFNR for installation in vertical riser and general horizontal applications when installed in accordance with NEC article 770-51 (b) and 770-53 (b)

Compliances:

- UL and c(UL) Listed Type OFNR
- CSA FT-4
- ANSI/TIA/EIA 568A
- ICEA S-83-596
- ETL Verified

RECOMMENDED FIBER TYPES

DESCRIPTION	FIBER TYPE	DIMENSIONS (mm)			MIN. BANDWIDTH (Mhz•km)		MAX. ATTENUATION (dB/km)	
		CORE	CLAD	COATING	850nm	1300nm	850/1300 nm	1310/1550 nm
Super/FDDI	CT	62.5	125	245	160	500	3.5/1.0	–
G300	CG	62.5	125	245	220	500	3.5/1.0	–
Super/50	BG	50.0	125	245	500	500	3.0/1.0	–
Super	AP	8.3	125	245	–	–	–	0.8/0.6

Note: Additional fiber types available. Reference the Fiber Specification and Selection on page 2.

c UL us LISTED

UL Listed Type OFNR

EIA TIA/EIA 568-A

ETL

General Cable

Breakout Plenum Cable

Type OFNP, CSA FT-6

Product Construction

Fiber:
- 2 - 48 fibers
- 900µm tight buffer
- Color coding per TIA/EIA 598A
- 2.4mm jacketed sub-units

Central Strength Member:
- Epoxy/Glass Rod

Overall Strength Member:
- Aramid fiber yarn

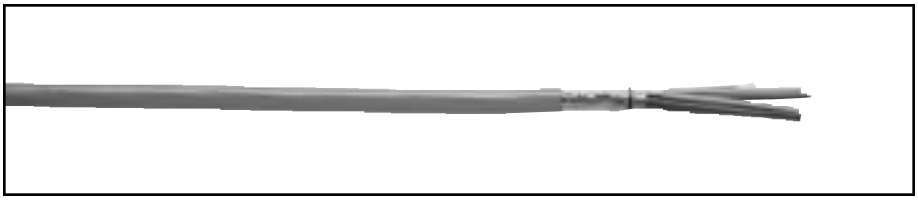
Jacket:
- Flame-retardant fluoropolymer
- Sequential meter markings
- Orange Jacket - Multimode fibers
- Yellow Jacket - Singlemode fibers

Features:
- Rugged individual fiber protection
- Easily terminated with fiber sub-units
- Heavy duty premises applications

Performance:
- Temperature:
  Storage -40˚C (-40˚F) to +70˚C (+158˚F)
  Operating 0˚C (+32˚F) to +70˚C (+158˚F)
- Minimum Bend Radius:
  20 X OD - Installation
  10 X OD - In-Service
- Maximum Crush Resistance:
  850 lbs/in (1485 N/cm)
- Maximum Vertical Rise – 1,640 ft (500 m)

Applications:
- Intrabuilding voice or data communication backbones
- ETL Listed Type OFNP for installation in ducts, plenums, and other spaces used as environmental air returns when installed in accordance with NEC article 770-51 (a) and 770-53 (a)

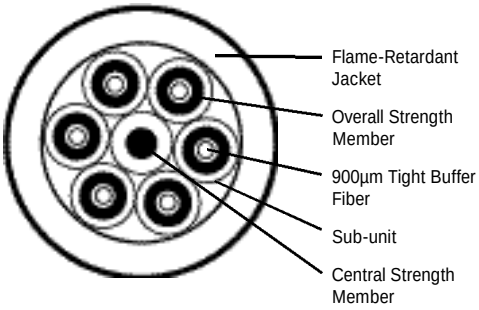
Compliances:
- ETL and c(ETL) Listed Type OFNP
- CSA FT-6
- ANSI/TIA/EIA 568A
- ICEA S-83-596
- ETL Verified



CATALOG NUMBER	FIBER COUNT	# OF SUB-UNITS	NOMINAL CABLE DIAMETER		NOMINAL CABLE WEIGHT		MAXIMUM TENSILE LOAD			
							INSTALLATION		IN-SERVICE	
			in	(mm)	lbs/1000'	(kg/km)	lbs	(N)	lbs	(N)
XX0021B1D	2	2	.238	(6.0)	26.8	(39.9)	270	(1200)	110	(490)
XX0041B1D	4	4	.276	(7.0)	33.0	(49.1)	450	(2000)	180	(800)
XX0061B1D	6	6	.337	(8.6)	50.0	(74.4)	450	(2000)	180	(800)
XX0081B1D	8	8	.398	(10.1)	72.0	(107.1)	600	(2670)	200	(890)
XX0121B1D	12	12	.443	(11.2)	76.0	(113.1)	790	(3515)	270	(1200)
XX0181B1D	18	18	.540	(13.7)	121.9	(181.4)	1000	(4450)	400	(1780)
XX0241B1D	24	24	.630	(16.0)	170.6	(253.9)	1230	(5470)	450	(2000)
XX0361B1D	36	36	.729	(18.5)	208.6	(310.5)	2000	(8896)	600	(2669)
XX0481B1D	48	48	.835	(21.2)	260.5	(387.7)	2600	(11565)	780	(3470)

XX Denotes fiber type

Typical Cross-Section



RECOMMENDED FIBER TYPES

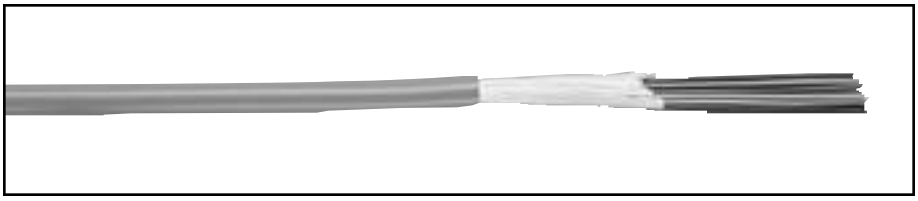
DESCRIPTION	FIBER TYPE	DIMENSIONS (nm)			MIN. BANDWIDTH (Mhz•km)		MAX. ATTENUATION (dB/km)	
		CORE	CLAD	COATING	850nm	1300nm	850/1300 nm	1310/1550 nm
Super/FDDI	CT	62.5	125	245	160	500	3.5/1.0	–
G300	CG	62.5	125	245	220	500	3.5/1.0	–
Super/50	BG	50.0	125	245	500	500	3.0/1.0	–
Super	AP	8.3	125	245	–	–	–	0.8/0.6

Note: Additional fiber types available. Reference the Fiber Specification and Selection on page 2.

General Cable

Premises Low-Smoke, Zero-Halogen (LSZH) Cable

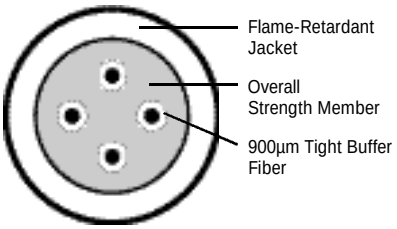
Type OFNR, CSA FT-4



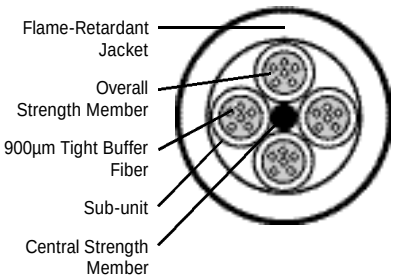
CATALOG NUMBER	FIBER COUNT	# OF SUB-UNITS	NOMINAL CABLE DIAMETER		NOMINAL CABLE WEIGHT		MAXIMUM TENSILE LOAD			
							INSTALLATION		IN-SERVICE	
			in	(mm)	lbs/1000'	(kg/km)	lbs	(N)	lbs	(N)
XX0021PNZ	2	-	.171	(4.3)	10.6	(16.0)	225	(1000)	65	(290)
XX0041PNZ	4	-	.181	(4.6)	12.6	(18.8)	225	(1000)	65	(290)
XX0061PNZ	6	-	.195	(4.9)	14.8	(22.0)	225	(1000)	65	(290)
XX0081PNZ	8	-	.203	(5.2)	16.5	(24.5)	245	(1090)	70	(310)
XX0121PNZ	12	-	.225	(5.7)	20.6	(30.7)	320	(1425)	112	(500)
XX0181P1Z	18	3	.469	(11.9)	83.8	(124.7)	600	(2670)	200	(890)
XX0241P1Z	24	4	.527	(13.4)	91.9	(136.8)	800	(3560)	270	(1201)
XX0361P1Z	36	6	.637	(16.2)	141.8	(211.0)	1000	(4448)	335	(1490)
XX0481P1Z	48	4	.608	(15.4)	122.4	(182.2)	1000	(4448)	335	(1490)
XX0601P1Z	60	5	.671	(17.0)	155.7	(231.7)	1200	(5338)	400	(1780)
XX0721P1Z	72	6	.743	(18.9)	192.0	(285.7)	1500	(6672)	500	(2224)

XX Denotes fiber type

Typical Cross-Section



4 fiber



24 fiber

Product Construction

Fiber:
- 2 - 72 fibers
- 900µm tight buffer
- Color coding per TIA/EIA 598A

Central Strength Member:
- Epoxy/Glass Rod (above 12 fibers)

Overall Strength Member:
- Aramid fiber yarn

Jacket:
- Flame-retardant polymer
- Sequential meter markings
- Orange Jacket - Multimode fibers
- Yellow Jacket - Singlemode fibers

Features:
- Lightweight, flexible design simplifies installation
- Tight buffer provides individual fiber protection
- Tight buffered fibers are easy to handle and strip for field connectorization

Performance:
- Temperature:
  Storage -40°C (-40°F) to +70°C (+158°F)
  Operating -20°C (-4°F) to +70°C (+158°F)
- Minimum Bend Radius:
  20 X OD - Installation
  10 X OD - In-Service
- Maximum Crush Resistance:
  850 lbs/in (1485 N/cm)
- Maximum Vertical Rise – 1,640 ft (500 m)

Applications:
- Intrabuilding voice or data communication back-bones
- UL Listed Type OFNR for installation in vertical riser and general horizontal applications when installed in accordance with NEC article 770-51 (b) and 770-53 (b)

Compliances:
- UL and c(UL) Listed Type OFNR
- CSA FT-4
- ANSI/TIA/EIA 568A
- ICEA S-83-596
- ETL Verified

Accessories:
- BOKP Breakout kits are suitable for Premises Low-Smoke, Zero-Halogen (LSZH) Cables

RECOMMENDED FIBER TYPES

DESCRIPTION	FIBER TYPE	DIMENSIONS (nm)			MIN. BANDWIDTH (Mhz•km)		MAX. ATTENUATION (dB/km)	
		CORE	CLAD	COATING	850nm	1300nm	850/1300 nm	1310/1550 nm
Super/FDDI	CT	62.5	125	245	160	500	3.5/1.0	–
G300	CG	62.5	125	245	220	500	3.5/1.0	–
Super/50	BG	50.0	125	245	500	500	3.0/1.0	–
Super	AP	8.3	125	245	–	–	–	0.8/0.6

Note: Additional fiber types available. Reference the Fiber Specification and Selection on page 2.

c UL us LISTED

UL Listed Type OFNR

EIA TIA/EIA 568A

ETL

General Cable

Premises Interlock Armor Plenum Cable

Type OFCP, CSA FT-6

Product Construction

Fiber:
- 6 - 48 fibers
- 900µm tight buffer
- Color coding per TIA/EIA 598A

Overall Strength Member:
- Aramid fiber yarn

Inner Jacket:
- Flame-retardant material

Armor:
- Interlock galvanized steel

Outer Jacket:
- Flame-retardant fluoropolymer
- Sequential meter markings
- Orange Jacket - Multimode fibers
- Yellow Jacket - Singlemode fibers

Features:
- Interlock armor provides outstanding mechanical protection
- Interlock armor is flexible and easy to use
- Tight buffer provides individual fiber protection

Performance:
- Temperature:
  Storage -40˚C (-40˚F) to +70˚C (+158˚F)
  Operating 0˚C (+32˚F) to +70˚C (+158˚F)
- Minimum Bend Radius:
  20 X OD - Installation
  10 X OD - In-Service
- Maximum Crush Resistance:
  500 lbs/in (875 N/cm)

Applications:
- Harsh premises environments requiring heavy-duty protection
- ETL Type OFCP for installation in any premises location when installed in accordance with NEC article 770-51 (a) and 770-53 (a)

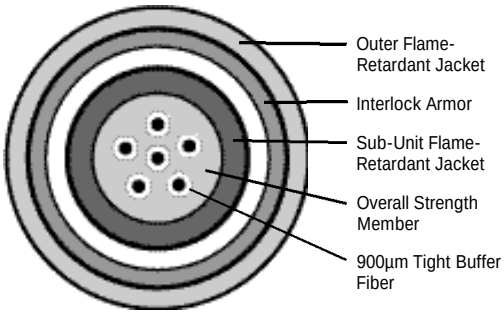
Compliances:
- ETL Listed Type OFCP

Accessories:
- BOKP Breakout kits are suitable for Premises Interlock Armor Plenum Cables

CATALOG NUMBER	FIBER COUNT	# OF SUB-UNITS	NOMINAL CABLE DIAMETER		NOMINAL CABLE WEIGHT		MAXIMUM TENSILE LOAD			
							INSTALLATION		IN-SERVICE	
			in	(mm)	lbs/1000'	(kg/km)	lbs	(N)	lbs	(N)
XX0061PNU-ILP	6	1	.480	(12.2)	218	(324)	550	(2447)	165	(734)
XX0121PNU-ILP	12	1	.585	(14.9)	255	(379)	550	(2447)	165	(734)
XX0241PNU-ILP	24	4	.735	(18.7)	342	(509)	1000	(4448)	300	(1334)
XX0361PNU-ILP	36	6	.750	(19.1)	359	(534)	1000	(4448)	300	(1334)
XX0481PNU-ILP	48	4	.800	(20.3)	398	(592)	1000	(4448)	300	(1334)

XX Denotes fiber type

Typical Cross-Section



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General Cable