Interconnect Cables

Interconnect cables are used in a variety of Fiber-To-The-Desk (FTTD) and network connection schemes. These cables are constructed to easily terminate with industry standard connectors such as the SC and ST. To serve the new market evolution into high density cabling and terminations, General Cable offers an extended cable product line that is compatible with all of the new connection systems such as MT-RJ, MTP, LC, and other Small Form Factor (SFF) components.

Applications: Interconnect cables are generally one or two fiber cable constructions for use in horizontal runs (Fiber-To-The-Desk), as patchcords in communication closets, and for OEM assemblies. These cables are constructed to easily terminate with industry standard connectors such as the SC and the ST as well as the new generation of Small Form Factor (SFF) connector designs.

Range of Products: Low fiber count (≤12) cables with riser (OFNR) or plenum (OFNP) listings comprise this family of cables. Most designs are tight buffered while some are available with fiber ribbons. These fiber ribbons allow fast termination to MTP and MT-RJ connectors or they may be fusion spliced to other cables.

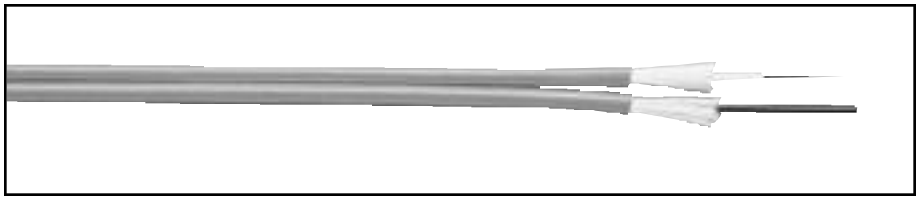
Features: The interconnect cables are constructed to have the proper geometry to mate with industry standard terminations. Generally, no breakout or splitter kits are required. The cables are very small and flexible so that they may be incorporated into high density cable management systems. Some cables are available with General Cable's Quik-Strip technology for easy removal of the 900µm layer.

Index

Index	Page
3.0mm Simplex/Duplex Cable	27
1.6mm Simplex/Duplex Cable	28
Miniature Duplex Cable	29
Miniature Ribbon Duplex Cable	30
Premises Ribbon Cable	31

3.0mm Simplex/Duplex Cable

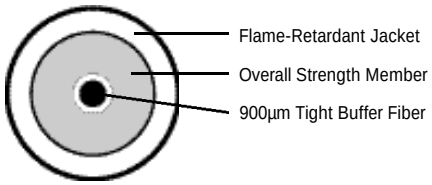
Type OFNR, CSA FT-4 and Type OFNP, CSA FT-6



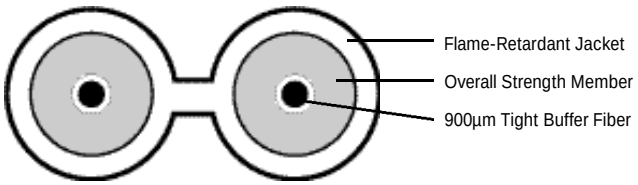
CATALOG NUMBER	FIBER COUNT	# OF SUB-UNITS	NOMINAL CABLE DIAMETER		NOMINAL CABLE WEIGHT		MAXIMUM TENSILE LOAD			
							INSTALLATION		IN-SERVICE	
			in	(mm)	lbs/1000'	(kg/km)	lbs	(N)	lbs	(N)
Riser										
XX0011SNR3.0	1	–	0.118	(3.0)	5.5	(8.2)	110	(490)	65	(290)
XX0021ZNR3.0	2	–	0.114 x 0.235	(2.9 x 6.0)	10.5	(15.6)	220	(980)	160	(580)
Plenum										
XX0011SNU3.0	1	–	0.118	(3.0)	6.5	(9.7)	110	(490)	65	(290)
XX0021ZNU3.0	2	–	0.114 x 0.235	(2.9 x 6.0)	12.1	(18.0)	220	(980)	160	(580)

xx Denotes fiber type

Typical Cross-Section



Simplex



Duplex

Product Construction

Fiber:
- 1 or 2 fibers
- 900µm Tight Buffer

Overall Strength Member:
- Aramid Fiber Yarn

Jacket:
- 3.0mm Unit Diameters
- Flame-retardant polyvinyl chloride (PVC)
- Sequential meter markings
- Orange Jacket - Multimode fibers
- Yellow Jacket - Singlemode fibers

Features:
- Industry standard design
- Ideal for Interconnect and Fiber-To-The-Desk (FTTD)

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:
  500 lbs/in (875 N/cm)

Applications:
- Interconnect design compatible with connectors requiring 3.0mm jacket diameter
- Fiber-To-The-Desk (FTTD)
- ULListed 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)
- ULListed 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 OFNR/OFNP
- CSA FT-4, CSA FT-6

RECOMMENDED FIBER TYPES

DESCRIPTION	FIBER TYPE	DIMENSIONS (µm)			MIN BANDWIDTH (Mhz•km)		MAX ATTENUATION (dB/km)	
		CORE	CLAD	COATING	850nm	1300nm	850/1300nm	1310/1550nm
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

c UL us LISTED

UL Listed Type OFNR

General Cable

1.6mm Simplex/Duplex Cable

Type OFNR, CSA FT-4

Product Construction

Fiber:

- 1 or 2 fibers
- 900µm Tight Buffer

Overall Strength Member:

- Aramid fiber yarn

Jacket:

- 1.6mm Unit Diameters
- Flame-retardant polyvinyl chloride (PVC)
- Sequential meter markings
- Orange Jacket - Multimode fibers
- Yellow Jacket - Singlemode fibers

Features:

- Compatible with LC Connectors
- Ideal for Interconnect and Fiber-To-The-Desk (FTTD)

Performance:

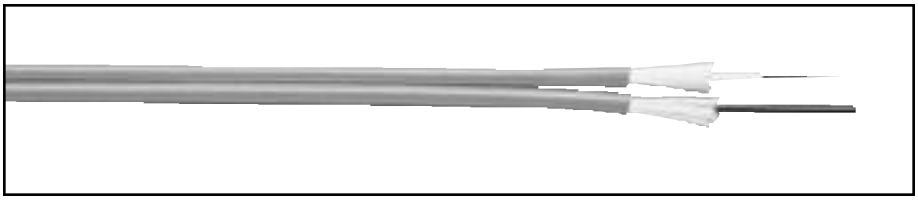
- Temperature:
  Storage -40˚C (-40˚F) to +70˚C (+158˚F)
  Operating -20˚C (-4˚F) to +70˚C (+158˚F)
- Minimum Bend Radius:
  20 X OD - Installation
  10 X OD - In-Service
- Maximum Crush Resistance:
  150 lbs/in (263 N/cm)

Applications:

- Interconnect design compatible with LC and other connectors requiring 1.6mm jacket diameter
- Fiber-To-The-Desk (FTTD)
- ULListed 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:

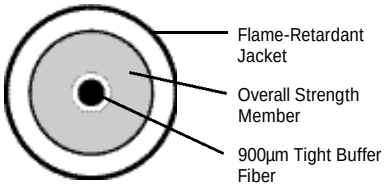
- ETL Listed Type OFNR
- CSA FT-4



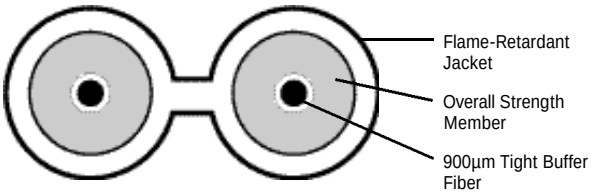
CATALOG NUMBER	FIBER COUNT	# OF SUB-UNITS	NOMINAL CABLE DIAMETER		NOMINAL CABLE WEIGHT		MAXIMUM TENSILE LOAD			
							INSTALLATION		IN-SERVICE	
			in	(mm)	lbs/1000'	(kg/km)	lbs	(N)	lbs	(N)
XX0011SNR1.6	1	–	0.063	(1.6)	1.65	(2.46)	25	(111)	7.5	(33)
XX0021ZNR1.6	2	–	0.063x 0.136	(1.6x3.45)	3.5	(5.2)	50	(222)	15	(67)

xx Denotes fiber type

Typical Cross-Section



Simplex



Duplex

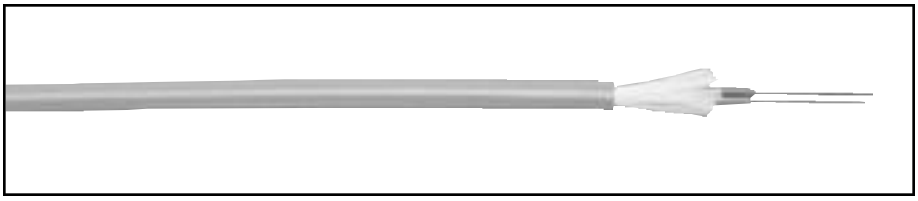
RECOMMENDED FIBER TYPES

DESCRIPTION	FIBER TYPE	DIMENSIONS (µm)			MIN BANDWIDTH (Mhz•km)		MAX ATTENUATION (dB/km)	
		CORE	CLAD	COATING	850nm	1300nm	850/1300nm	1310/1550nm
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

General Cable

Miniature Duplex Cable

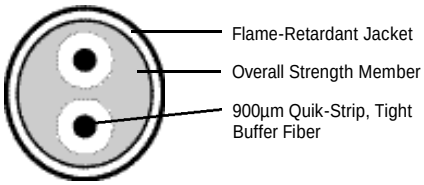
Type OFNR, CSA FT-4



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)
XX0022PNR3.0	2	–	0.092x 0.118	(2.33x3.0)	5.5	(8.2)	60	(267)	30	(133)

xx Denotes fiber type

Typical Cross-Section



Product Construction

Fiber:

- 2 fibers
- 900µm Quik-Strip, Tight Buffer

Overall Strength Member:

- Aramid fiber yarn

Jacket:

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

Features:

- 245µm fiber is color coded to match the 900µm tight buffer allowing easy fiber identification
- Quik-Strip, Tight Buffer allows removal of 6" of buffer in one pass
- Small design for high density cable 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:
  57 lbs/in (100 N/cm)

Applications:

- Interconnect design compatible with MT-RJ and other Small Form Factor (SFF) connectors
- Fiber-To-The-Desk (FTTD)
- Assemblies and patch cords

Compliances:

- UL and c(UL) Listed Type OFNR
- CSA FT-4

RECOMMENDED FIBER TYPES

DESCRIPTION	FIBER TYPE	DIMENSIONS (µm)			MIN BANDWIDTH (Mhz•km)		MAX ATTENUATION (dB/km)	
		CORE	CLAD	COATING	850nm	1300nm	850/1300nm	1310/1550nm
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

c UL us LISTED

UL Listed Type OFNR

General Cable

Miniature Ribbon Duplex Cable

Type OFNR, OFNP - CSA FT-4, FT-6

Product Construction

Fiber:
- 2 fibers
- 250µm Fiber Ribbon with 750µm spacing

Overall Strength Member:
- Aramid fiber yarn

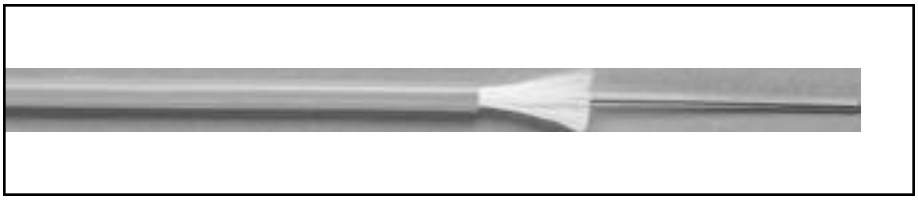
Jacket:
- Flame-retardant polyvinyl chloride (PVC)
- Sequential meter markings
- Orange Jacket - Multimode fibers
- Yellow Jacket - Singlemode fibers

Features:
- 2 fiber ribbons spaced to mate with MT-RJ connectors
- Compact design
- Color coded ribbon for fiber identification

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:
  2.6 (6.5cm) - Installation
  1.6 (4.0cm) - In-Service
- Maximum Crush Resistance:
  57 lbs/in (100 N/cm)

Applications:
- Interconnect design compatible with MT-RJ and other Small Form Factor (SFF) connectors
- Fiber-To-The-Desk (FTTD)
- Patch cords and jumpers
- 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)
- UL Listed Type OFNP for installation in plenum airways and horizontal applications when installed in accordance with NEC article 770-51(a) and 770-53(a)

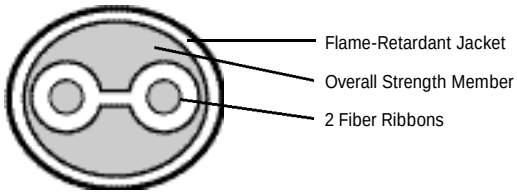
Compliances:
- UL and c(UL) Listed Type OFNR/OFNP
- CSA FT-4, CSA FT-6



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)
XX0026RNR	2	–	0.094	(2.40)	4.0	(6)	50	(220)	25	(110)
XX0026RNP	2	–	0.094	(2.40)	4.0	(6)	50	(220)	25	(110)

xx Denotes fiber type

Typical Cross-Section



RECOMMENDED FIBER TYPES

DESCRIPTION	FIBER TYPE	DIMENSIONS (µm)			MIN BANDWIDTH (Mhz•km)		MAX ATTENUATION (dB/km)	
		CORE	CLAD	COATING	@850nm	@1300nm	850/1300nm	1310/1550nm
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

General Cable

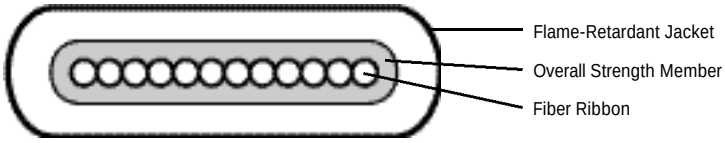
Premises Ribbon Cable

Type OFNR/OFNP, CSA FT-4, FT-6

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)
XX0046RNR	4	-	.094 x .174	(2.4 x 4.0)	4.7	(7)	50	(220)	25	(110)
XX0066RNR	6	-	.094 x .174	(2.4 x 4.0)	5.4	(8)	50	(220)	25	(110)
XX0086RNR	8	-	.094 x .174	(2.4 x 4.0)	6.0	(9)	50	(220)	25	(110)
XX0106RNR	10	-	.094 x .174	(2.4 x 4.0)	6.7	(10)	50	(220)	25	(110)
XX0126RNR	12	-	.094 x .174	(2.4 x 4.0)	8.0	(12)	50	(220)	25	(110)
XX0046RNP	4	-	.094 x .174	(2.4 x 4.0)	4.7	(7)	50	(220)	25	(110)
XX0066RNP	6	-	.094 x .174	(2.4 x 4.0)	5.4	(8)	50	(220)	25	(110)
XX0086RNP	8	-	.094 x .174	(2.4 x 4.0)	6.0	(9)	50	(220)	25	(110)
XX0106RNP	10	-	.094 x .174	(2.4 x 4.0)	6.7	(10)	50	(220)	25	(110)
XX0126RNP	12	-	.094 x .174	(2.4 x 4.0)	8.0	(12)	50	(220)	25	(110)

xx Denotes fiber type

Typical Cross-Section



Product Construction

Fiber:

- 4-12 fibers
- 250µm Fiber Ribbons

Overall Strength Member:

- Aramid fiber yarn

Jacket:

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

Features:

- Small, flexible design for routing in patch panels, closures, etc.
- Ribbon fiber for mass fusion splicing

Performance:

- Temperature:
  Storage -40˚C (-40˚F) to +65˚C (+149˚F)
  Operating -20˚C (-4˚F) to +50˚C (+122˚F)
- Minimum Bend Radius:
  2.6 (6.5cm) - Installation
  1.6 (4.0cm) - In-Service
- Maximum Crush Resistance:
  57 lbs/in (100 N/cm)

Applications:

- Interconnect design compatible with MTP connectors
- Fiber-To-The-Desk (FTTD)
- 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)
- UL Listed Type OFNP for installation in plenum airways and horizontal applications when installed in accordance with NEC article 770-51(a) and 770-53(a)
- Pre-assembled optical hardware

Compliances:

- UL and c(UL) Listed Type OFNR/OFNP
- CSA FT-4, FT-6

RECOMMENDED FIBER TYPES

DESCRIPTION	FIBER TYPE	DIMENSIONS (µm)			MIN BANDWIDTH (Mhz•km)		MAX ATTENUATION (dB/km)	
		CORE	CLAD	COATING	850nm	1300nm	850/1300nm	1310/1550nm
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

c UL us LISTED

UL Listed Type OFNP

UL Listed Type OFNR

General Cable