NEXTGEN® BRAND

FIBER OPTIC CABLE SELECTION GUIDE

PRODUCT TYPE	Construction Options	Fiber Count	Part Number*	Catalog Page
PREMISE CABLE				
Interconnect Cable	3.0 mm Riser	1 Fiber	xxyyySNR3.0	40
		2 Fibers	xxyyyZNR3.0	40
	3.0 mm Plenum	1 Fiber	xxyyySNU3.0	40
		2 Fibers	xxyyyZNU3.0	40
	1.6 mm Riser	1 Fiber	xxyyySNR1.6	41
		2 Fibers	xxyyyZNR1.6	41
Tight Buffer Breakout Cable	Riser	2-24 Fibers	xxyyy1B3R	25
	Plenum	2-48 Fibers	xxyyy1B3D	26
Tight Buffer Distribution Cable	Riser	2-24 Fibers	xxyyy1PNR	23
		18-144 Fibers	xxyyy1P1R	23
	Plenum	2-24 Fibers	xxyyy1PNU	24
		36-144 Fibers	xxyyy1P1D	24
	Interlock Armored Riser	2-24 Fibers	xxyyy1PNR-ILRA	28
		24-144 Fibers	xxyyy1P1R-ILRA	28
	Interlock Armored Plenum	2-24 Fibers	xxyyy1PNU-ILPA	29
		24-144 Fibers	xxyyy1PNU-ILPAS	29
INDOOR/OUTDOOR CABLE				
Loose Tube, Dry Water Block Cable	Riser	2-144 Fibers	xxyyy4M1M-DT	36
	Plenum	2-144 Fibers	xxyyy4M1D-DT	35
	Dual Jacket LSZH	2-144 Fibers	xxyyy4H1L	38
Tight Buffer Distribution-Style Cable	Riser	2-24 Fibers	xxyyy1ANR.BK	31
		18-144 Fibers	xxyyy1A1R.BK	31
	Plenum	2-24 Fibers	xxyyy1ANU.BK	32
		36-144 Fibers	xxyyy1A1D.BK	32
Tight Buffer Distribution-Style Cable	Interlock Armored Riser	2-24 Fibers	xxyyy1ANR.ILRA	33
		24-144 Fibers	xxyyy1A1R.ILRA	33
	Interlock Armored Plenum	2-24 Fibers	xxyyy1ANU.ILPA	34
		24-144 Fibers	xxyyy1ANU.ILPAS	34
17 FREE® REDUCED-TOXICITY CABLES (LSZH)				
Tight Buffer Distribution Cable	—	2-12 Fibers	xxyyy1PNZ	27
		18-72 Fibers	xxyyy1P1Z	27
Loose Tube, Dry Water Block Cable	—	2-144 Fibers	xxyyy4M1Z	37

PRODUCT TYPE	Construction Options	Fiber Count	Part Number*	Catalog Page
OUTSIDE PLANT CABLE				
Loose Tube Cable	Single Jacket	2-312 Fibers	xxyyy4M1A-DWB	8
	Dual Jacket	2-144 Fibers	xxyyy4H1A-DWB	9
	Single Jacket Armored	2-312 Fibers	xxyyy4M1F-DWB	10
	Dual Jacket Armored	2-312 Fibers	xxyyy4H1F-DWB	11
	Triple Jacket Armored	2-144 Fibers	xxyyy4E1S-DWB	15
	Figure 8	2-216 Fibers	xxyyy4M1Y-DWB	12
	Figure 8 Armored	2-216 Fibers	xxyyy4M1N-DWB	13
	Dual Jacket Dual Armored	2-144 Fibers	xxyyy4H1S-DWB	14
	Single Jacket Ribbon	288-864 Fibers	xxyyy6R1A-DWB	16
Central Tube Cable	Single Jacket Armored	2-12 Fibers	xxyyy4UNFS	7
Drop Cables	Compact Central	2-12 Fibers	xxyyy4UNFC	17
	Toneable Flat	2-12 Fibers	xxyyy4U1A.TF	18
	All-Dielectric Flat	2-12 Fibers	xxyyy4U1A	19
	Mini (Fig. 8)	2-12 Fibers	xxyyyU2A	20
BLOWN FIBER				
Blown Fiber	5 mm and 8 mm Microduct	1-12 Fibers		44-45
TACTICAL FIBER				
Tight Buffer	Breakout Cable	2-12 Fibers	xxyyyB3C	46-47
Tight Buffer	Military Distribution	2 & 4	xxyyy1GNC	49

SPECIALTY FIBERS	Type	Typical Attenuation (dB/km)				
Singlemode (NZDS)		**1310 nm**	**1383 nm**	**1550 nm**	**1605 nm**	**1625 nm**
Large Effective Area	AL	—	—	0.30	—	0.30
Singlemode		**1310 nm**	**1383 nm**	**1550 nm**	**1605 nm**	**1625 nm**
Bend-Insensitive	AB	0.40	0.40	0.30	—	0.30

MULTIMODE		50/125 Product Family				62.5/125 Product Family		62.5/125 Tactical Fiber		Units
Optical Characteristics		OM2 Type-BI	OM3 Type-BE	OM4 Type-BL	OM4 Type-BM	OM1 Type-CG	OM1 Type-CL	OM1 Type-CE	OM1 Type-CK	
Maximum Finished Cable Attenuation Coefficient	@850 nm	3.0	3.0	3.0	3.0	3.5	3.5	3.5	3.5	dB/km
	@1300 nm	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	dB/km
Overfill Launch Bandwidth	@850 nm	700	1500	1500	1500	200	200	200	200	MHz/km
	@1300 nm	500	500	500	500	500	500	500	500	MHz/km
Laser Bandwidth	@850 nm	850	2000	4700	5350	220	385	220	385	MHz/km
Gigabit Ethernet Link Length (1 Gbps)	1000BASE-SX (850 nm)	750	1000	1100	1100	300	500	300	500	Meters
	1000BASE-LX (1300 nm)	550	550	550	550	550	1000	550	1000	Meters
10 Gigabit Ethernet Link Length (10 Gbps)	10GBASE-SR (850 nm)	150	300	550	600	33	33	33	33	Meters
Coating	—	250	250	250	250	250	250	500	500	microns
QPL	—	—	—	—	—	—	—	No	Yes	—

SINGLEMODE	Type	Typical Attenuation (dB/km)				1 Gbit Ethernet Distance (m)	10 Gbit Ethernet Distance (m)		Coating	QPL
Singlemode - Loose Tube		**1310 nm**	**1383 nm**	**1550 nm**	**1625 nm**	**1310 nm**	**1310 nm**	**1550 nm**		
Premium	AQ	0.40	0.40	0.30	0.35	10,000	5,000	30,000	—	—
High Performance	AT	0.35	0.35	0.25	0.30	10,000	5,000	30,000	—	—
Singlemode - Tight Buffer										
Super	AP	0.65	—	0.65	—	10,000	5,000	30,000	—	—
Breakout	AP	1.00	—	1.00	—	10,000	5,000	30,000	—	—
Tactical Fiber Singlemode - Tight Buffer	AE 500 µm	1.00	—	1.00	—	10,000	5,000	30,000	500	No
	AK 500 µm	1.00	—	1.00	—	10,000	5,000	30,000	500	Yes

*NOTE: **xx** denotes fiber type, **yyy** denotes fiber count, **DT** denotes dry tube water block.

NOTE: Use the code in the "Fiber Type" column to replace the XX notation in the catalog number shown on the catalog page. This identifies the fiber that will be provided with the cable choice. The fibers in all completed cables are tested 100% at the factory for attenuation, and each fiber must meet the minimum requirements specified by the customer.

General Cable

plus CORNING Optical Fiber

FIBER OPTIC CABLE SELECTION GUIDE

OPTICAL FIBER CODE CROSS-REFERENCE

Fiber Type	General Cable	Corning® Optical Fiber	Description
Standard Loose Tube SM	AQ	SMF-28e+™ Fiber	Full spectrum, low water peak singlemode, ITU-T G.652.D
Performance Loose Tube SM	AT	SMF-28e+™ Fiber	Full spectrum, high performance low water peak singlemode with 0.35/0.25 attenuation, ITU-T G.652.D
Tight Buffer SM	AP	SMF-28e+™ Fiber	Full spectrum, low water peak singlemode with 900 µm PVC buffer, ITU-T G.652.D
Long-Haul SM	AL	LEAF® Fiber	Large A_{eff}, low water peak, NZ-DSF singlemode, ITU-T G.655
Ultra-Bendable SM	AZ	ClearCurve® ZBL	Full spectrum with best macrobending performance, ITU-T G.652.D and ITU-T G.657.A
62.5 µm MM	CG	InfiniCor® 300 Fiber	1 Gb/s ≤ 300 m at 850 nm, OM1* 1 Gb/s ≤ 550 m at 1300 nm
62.5 µm MM	CL	InfiniCor® CL™ 1000 Fiber	1 Gb/s ≤ 500 m at 850 nm, OM1* 1 Gb/s ≤ 1000 m at 1300 nm
Ultra-Bendable 50 µm MM	BI	ClearCurve® OM2 Fiber	10 Gb/s ≤ 150 m at 850 nm, OM2* 1 Gb/s ≤ 750 m at 850 nm
Ultra-Bendable 50 µm MM	BE	ClearCurve® OM3 Fiber	10 Gb/s ≤ 300 m at 850 nm, OM3* 1 Gb/s ≤ 1000 m at 850 nm
Ultra-Bendable 50 µm MM	BL	ClearCurve® OM4 Fiber	10 Gb/s ≤ 550 m at 850 nm, OM4* 1 Gb/s ≤ 1100 m at 850 nm
Ultra-Bendable 50 µm MM	BM	ClearCurve® OM4 Fiber	10 Gb/s ≤ 600 m at 850 nm, OM4+* 1 Gb/s ≤ 1100 m at 850 nm

* Designation per ISO 11801 Fiber Standards

TACTICAL CABLE OPTICAL FIBER CODE GUIDE

Fiber Type	General Cable	Description
500 µm Coated SM	AE	ITU-T G.652.D
500 µm Coated SM, QPL	AK	ITU-T G.652.D
500 µm Coated, 62.5 MM	CE	1 Gb/s ≤ 300 m at 850 nm, OM1 1 Gb/s ≤ 550 m at 1300 nm
500 µm Coated, 62.5 MM, QPL	CK	1 Gb/s ≤ 300 m at 850 nm, OM1 1 Gb/s ≤ 550 m at 1300 nm

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