

General Photonics Standard Coil Selection Table

Quadrupole Winding Pattern (PM or SM fiber)

Model	Inner Diameter (ID)	Outer Diameter (OD)	Coil Height	Coil Length (excluding pigtails)	Fiber diam.	Wavelength (nm)
FCQ-22-14-1030-100-λ-X-Y	≥22.9mm	≤38.8mm	≤14.4mm	≥1010m	100 μm	1550
FCQ-22-14-1200-100-λ-X-Y	≥22.9mm	≤38.85mm	≤14.47mm	≥1195m	100 μm	1550
FCQ-23-5-238-100-λ-X-Y	≥23.5mm	≤35.0mm	≤5mm	≥228m	102 μm	1550
FCQ-20-12-333-135-λ-X-Y	≥20.82mm	≤35.8mm	≤12.17mm	≥333m	135 μm	1550
FCQ-21-19-370-135-λ-X-Y	≥21.84mm	≤30.48mm	≤19.04mm	≥370m	135 μm	1550
FCQ-22-14-420-135-λ-X-Y	≥22.9mm	≤35.2mm	≤14.47mm	≥405m	135 μm	1550
FCQ-22-14-530-135-λ-X-Y	≥22.5mm	≤38.8mm	≤14.4mm	≥520m	135 μm	1550
FCQ-22-14-585-135-λ-X-Y	≥22.9mm	≤38.8mm	≤14.4mm	≥575m	135 μm	1550
FCQ-22-16-600-135-λ-X-Y	≥22.9mm	≤38.35mm	≤16.5mm	≥600m	135 μm	1550
FCQ-23-5-132-135-λ-X-Y	≥23.5mm	≤35mm	≤5mm	≥127m	135 μm	1550
FCQ-28-14-420-135-λ-X-Y	≥28.5mm	≤38.8mm	≤14.4mm	≥420m	135 μm	1550
FCQ-20-12-333-156-λ-X-Y	≥20.82mm	≤35.8mm	≤12.17mm	≥333m	156 μm	1550
FCQ-21-19-330-156-λ-X-Y	≥21.84mm	≤31.82mm	≤19.04mm	≥330m	156 μm	1550
FCQ-30-18-880-135-λ-X-Y	≥30.48mm	≤46mm	≤18.28mm	≥865m	135 μm	1550
FCQ-31-14-255-135-λ-X-Y	≥31.5mm	≤38.8mm	≤14.4mm	≥250m	135 μm	1550
FCQ-30-18-879-138-λ-X-Y	≥30.45mm	≤44.6mm	≤18.25mm	≥873m (879 m nominal)	138 μm	1550
FCQ-35-13-224-138-λ-X-Y	≥35.0mm	≤40.6mm	≤13.1mm	≥220m (224m nominal)	138 μm	1550
FCQ-35-13-322-138-λ-X-Y	≥35.0mm	≤42.8mm	≤13.1mm	≥318m (322m nominal)	138 μm	1550
FCQ-35-13-425-138-λ-X-Y	≥35.0mm	≤44.8mm	≤13.1mm	≥419m (425m nominal)	138 μm	1550
FCQ-35-13-534-138-λ-X-Y	≥35.0mm	≤46.9mm	≤13.1mm	≥526m (534m nominal)	138 μm	1550
FCQ-35-13-649-138-λ-X-Y	≥35.0mm	≤49.2mm	≤13.1mm	≥641m (649m nominal)	138 μm	1550
FCQ-35-13-830-138-λ-X-Y	≥35.0mm	≤52.4mm	≤13.1mm	≥820m (830m nominal)	138 μm	1550
FCQ-35-13-1023-138-λ-X-Y	≥35.0mm	≤55.6mm	≤13.1mm	≥1013m (1023m nominal)	138 μm	1550
FCQ-35-13-1227-138-λ-X-Y	≥35.0mm	≤59.5mm	≤13.1mm	≥1211m (1227m nominal)	138 μm	1550
FCQ-35-13-1444-138-λ-X-Y	≥35.0mm	≤62.8mm	≤13.1mm	≥1428m (1444m nominal)	138 μm	1550

Model	Inner Diameter (ID)	Outer Diameter (OD)	Coil Height	Coil Length (excluding pigtails)	Fiber diam.	Wavelength (nm)
FCQ-35-13-1595-138-λ-X-Y	≥35.0mm	≤65.0mm	≤13.1mm	≥1579m (1595m nominal)	138 μm	1550
FCQ-33-14-385-168-λ-X-Y	≥33.45mm	≤47.15mm	≤13.8 mm	≥385m	168 μm	1550
FCQ-33-14-412-168-λ-X-Y	≥33.45mm	≤48mm	≤13.8 mm	≥410m	168 μm	1550 (1310)
FCQ-35-13-227-168-λ-X-Y	≥35.0mm	≤43.0mm	≤13.1mm	≥223m (227m nominal)	168 μm	1550 (1310)
FCQ-35-13-314-168-λ-X-Y	≥35.0mm	≤45.8mm	≤13.1mm	≥310m (314m nominal)	168 μm	1550 (1310)
FCQ-35-13-405-168-λ-X-Y	≥35.0mm	≤48.4mm	≤13.1mm	≥399m (405m nominal)	168 μm	1550 (1310)
FCQ-35-13-534-168-λ-X-Y	≥35.0mm	≤51.8mm	≤13.1mm	≥526m (534m nominal)	168 μm	1550 (1310)
FCQ-35-13-604-168-λ-X-Y	≥35.0mm	≤53.6mm	≤13.1mm	≥596m (604m nominal)	168 μm	1550 (1310)
FCQ-35-13-824-168-λ-X-Y	≥35.0mm	≤58.8mm	≤13.1mm	≥814m (824m nominal)	168 μm	1550 (1310)
FCQ-35-13-1002-168-λ-X-Y	≥35.0mm	≤62.6mm	≤13.1mm	≥992m (1002m nominal)	168 μm	1550 (1310)
FCQ-35-13-1193-168-λ-X-Y	≥35.0mm	≤67.4mm	≤13.1mm	≥1177m (1193m nominal)	168 μm	1550 (1310)
FCQ-35-13-1395-168-λ-X-Y	≥35.0mm	≤71.5mm	≤13.1mm	≥1379m (1395m nominal)	168 μm	1550 (1310)
FCQ-35-13-1609-168-λ-X-Y	≥35.0mm	≤75.5mm	≤13.1mm	≥1593m (1609m nominal)	168 μm	1550 (1310)
FCQ-41-11-480-135-λ-X-Y	≥41.1mm	≤52.5mm	≤11.25mm	≥460m (480m nominal)	135 μm	1550
FCQ-41-11-515-135-λ-X-Y	≥41.1mm	≤52.5mm	≤11.25mm	≥490m (515m nominal)	135 μm	1550
FCQ-43-18-2025-135-λ-X-Y	≥43mm	≤67.5mm	≤18.25mm	≥1995m	135 μm	1550
FCQ-43-18-2107-135-λ-X-Y	≥43mm	≤67.5mm	≤18.25mm	≥2056m	135 μm	1550
FCQ-44-19-2010-135-λ-X-Y	≥44.45mm	≤69.85mm	≤19.68mm	≥1950m	135 μm	1550
FCQ-49-14-875-135-λ-X-Y	≥49.53mm	≤62.99mm	≤14.73mm	≥860m	135 μm	1550
FCQ-52-30-2000-135-λ-X-Y	≥52mm	≤67.5mm	≤30mm	≥1970m	135 μm	1550
FCQ-63-12-920-135-λ-X-Y	≥63.5mm	≤76.96mm	≤12.19mm	≥900m	135 μm	1550
FCQ-63-15-1270-135-λ-X-Y	≥63.5mm	≤83.0mm	≤15.2mm	≥1270m	135 μm	1550
FCQ-63-15-1360-135-λ-X-Y	≥63.5mm	≤83.0mm	≤15.2mm	≥1360m	135 μm	1550
FCQ-63-15-1380-135-λ-X-Y	≥63.5mm	≤83.0mm	≤15.2mm	≥1380m	135 μm	1550
FCQ-63-18-1330-135-λ-X-Y	≥63mm	≤78mm	≤18.2mm	≥1330m	135 μm	1550
FCQ-64-6-260-135-λ-X-Y	≥64mm	≤73.5mm	≤6.2mm	≥245m	135 μm	1550
FCQ-64-6-310-135-λ-X-Y	≥64mm	≤73.5mm	≤6.2mm	≥290m	135 μm	1550
FCQ-64-7-300-135-λ-X-Y	≥64mm	≤73.5mm	≤7.4mm	≥290m	135 μm	1550
FCQ-64-20-1340-135-λ-X-Y	≥64.77mm	≤75.57mm	≤20.52mm	≥1340m	135 μm	1550
FCQ-50-15-211-138-λ-X-Y	≥50.0mm	≤53.5mm	≤15.1mm	≥207m (211m nominal)	138 μm	1550

Model	Inner Diameter (ID)	Outer Diameter (OD)	Coil Height	Coil Length (excluding pigtails)	Fiber diam.	Wavelength (nm)
FCQ-50-15-360-138-λ-X-Y	≥50.0mm	≤55.6mm	≤15.1mm	≥356m (360m nominal)	138 μm	1550
FCQ-50-15-436-138-λ-X-Y	≥50.0mm	≤56.6mm	≤15.1mm	≥432m (436m nominal)	138 μm	1550
FCQ-50-15-515-138-λ-X-Y	≥50.0mm	≤57.5mm	≤15.1mm	≥507m (515m nominal)	138 μm	1550
FCQ-50-15-594-138-λ-X-Y	≥50.0mm	≤58.6mm	≤15.1mm	≥586m (594m nominal)	138 μm	1550
FCQ-50-15-842-138-λ-X-Y	≥50.0mm	≤62.4mm	≤15.1mm	≥830m (842m nominal)	138 μm	1550
FCQ-50-15-1015-138-λ-X-Y	≥50.0mm	≤64.4mm	≤15.1mm	≥1003m (1015m nominal)	138 μm	1550
FCQ-50-15-1194-138-λ-X-Y	≥50.0mm	≤66.6mm	≤15.1mm	≥1182m (1194m nominal)	138 μm	1550
FCQ-50-15-1473-138-λ-X-Y	≥50.0mm	≤70.0mm	≤15.1mm	≥1457m (1473m nominal)	138 μm	1550
FCQ-50-15-1667-138-λ-X-Y	≥50.0mm	≤72.0mm	≤15.1mm	≥1651m (1667m nominal)	138 μm	1550
FCQ-50-15-1867-138-λ-X-Y	≥50.0mm	≤74.8mm	≤15.1mm	≥1851m (1867m nominal)	138 μm	1550
FCQ-50-15-2074-138-λ-X-Y	≥50.0mm	≤77.0mm	≤15.1mm	2058m (2074m nominal)	138 μm	1550
FCQ-50-15-979-138-λ-X-Y	≥49.5 mm	≤62.9mm	≤14.7 mm	≥973m (979m nominal)	138 μm	1550
FCQ-60-6-415-138-λ-X-Y	≥60mm	≤73.5mm	≤6.2mm	≥405m	138 μm	1550
FCQ-63-12-922-138-λ-X-Y	≥63.40mm	≤76.0 mm	≤12.2 mm	≥916m (922m nominal)	138 μm	1550
FCQ-64-20-1297-156-λ-X-Y	≥64.77mm	≤78.50mm	≤20.44mm	≥1297m	156 μm	1550
FCQ-50-15-236-168-λ-X-Y	≥50.0mm	≤55.6mm	≤15.1mm	≥232m (236m nominal)	168 μm	1550 (1310)
FCQ-50-15-299-168-λ-X-Y	≥50.0mm	≤56.6mm	≤15.1mm	≥295m (299m nominal)	168 μm	1550 (1310)
FCQ-50-15-429-168-λ-X-Y	≥50.0mm	≤59.6mm	≤15.1mm	≥425m (429m nominal)	168 μm	1550 (1310)
FCQ-50-15-497-168-λ-X-Y	≥50.0mm	≤60.6mm	≤15.1mm	≥489m (497m nominal)	168 μm	1550 (1310)
FCQ-50-15-636-168-λ-X-Y	≥50.0mm	≤63.2mm	≤15.1mm	≥628m (636m nominal)	168 μm	1550 (1310)
FCQ-50-15-781-168-λ-X-Y	≥50.0mm	≤65.8mm	≤15.1mm	≥769m (781m nominal)	168 μm	1550 (1310)
FCQ-50-15-1011-168-λ-X-Y	≥50.0mm	≤69.9mm	≤15.1mm	≥999m (1011m nominal)	168 μm	1550 (1310)
FCQ-50-15-1254-168-λ-X-Y	≥50.0mm	≤74.4mm	≤15.1mm	≥1242m (1254m nominal)	168 μm	1550 (1310)
FCQ-50-15-1423-168-λ-X-Y	≥50.0mm	≤77.4mm	≤15.1mm	≥1407m (1423m nominal)	168 μm	1550 (1310)
FCQ-50-15-1599-168-λ-X-Y	≥50.0mm	≤79.8mm	≤15.1mm	≥1583m (1599m nominal)	168 μm	1550 (1310)
FCQ-50-15-1873-168-λ-X-Y	≥50.0mm	≤83.8mm	≤15.1mm	≥1857m (1873m nominal)	168 μm	1550 (1310)
FCQ-50-15-2064-168-λ-X-Y	≥50.0mm	≤86.4mm	≤15.1mm	≥2048m (2064m nominal)	168 μm	1550 (1310)
FCQ-52-15-723-168-λ-X-Y	≥52.5 mm	≤66.4mm	≤14.65mm	≥717m (723m nominal)	168 μm	1550 (1310)
FCQ-63-15-1235-168-λ-X-Y	≥63.2mm	≤83.0mm	≤15.2mm	≥1220m (1235m nominal)	168 μm	1550 (1310)
FCQ-64-6-218-168-λ-X-Y	≥64.2mm	≤73.5mm	≤6.2mm	≥214m (218m nominal)	168 μm	1550 (1310)
FCQ-63-18-1320-170-λ-X-Y	≥63mm	≤82.5mm	≤18.2mm	≥1310m	170 μm	1550

Model	Inner Diameter (ID)	Outer Diameter (OD)	Coil Height	Coil Length (excluding pigtails)	Fiber diam.	Wavelength (nm)
FCQ-53-13-234-250-λ-X-Y	≥52.95mm	≤64.1mm	≤12.7mm	≥231m (234m nominal)	250 μm	1550 (1310)

Notes:

1. All part numbers end with codes specifying wavelength, fiber type, and Shupe effect mitigation level.

λ: wavelength specification. See available options in table.

15 = 1550nm

13 = 1310nm

X: fiber type specification

S = SM fiber

P = PM fiber

Y: Shupe effect mitigation level

A = Level 1

B = Level 2

C = Level 3

2. Dimensions may vary slightly from values listed in this table. Actual dimensions will be confirmed when items are quoted.

3. Standard pigtail length is 2m. Other lengths available upon request.

4. Standard coil configuration is frameless. Other configurations (e.g. coil mounted on a bobbin) are available upon request.

5. GP reserves the right to use specialized winding patterns to optimize performance.

Unless otherwise specified, quadrupole or equivalent winding pattern will be used.

General Photonics Standard Coil Selection Table

Simple Winding Pattern (PM or SM fiber)

Model	Inner Diameter (ID)	Outer Diameter (OD)	Coil Height	Coil Length (excluding pigtailed)	Fiber diam.	Wavelength (nm)
FCS-55-10-300-250-λ-X	≥55.0mm	≤83mm	≤10mm	≥299m (300m nominal)	250μm	1550 (1310)
FCS-55-18-404-250-λ-X	≥55.0mm	≤74mm	≤18mm	≥403m (404 m nominal)	250μm	1550 (1310)
FCS-55-19-600-250-λ-X	≥55.0mm	≤79mm	≤19mm	≥599m (600 m nominal)	250μm	1550 (1310)
FCS-55-18-1000-200-λ-X	≥55.0mm	≤83mm	≤18mm	≥999m (1000m nominal)	200μm	1550 (1310)
FCS-55-18-1650-200-λ-X	≥55.0mm	≤94mm	≤18mm	≥1649m (1650m nominal)	200μm	1550 (1310)
FCS-55-18-1200-200-λ-X	≥55.0mm	≤88mm	≤18mm	≥1199m (1200m nominal)	200μm	1550 (1310)
FCS-70-15-365-250-λ-X	≥70.0mm	≤89mm	≤15mm	≥364m (365m nominal)	250μm	1550 (1310)
FCS-70-25-680-250-λ-X	≥70.0mm	≤82mm	≤25mm	≥679m (680m nominal)	250μm	1550 (1310)
FCS-70-36-500-250-λ-X	≥70.0mm	≤89mm	≤36mm	≥499m (500m nominal)	250μm	1550 (1310)
FCS-70-20-100-250-λ-X	≥70.0mm	≤77mm	≤20mm	≥99m (100m nominal)	250μm	1550 (1310)
FCS-70-34-4000-250-λ-X	≥70.0mm	≤126mm	≤34mm	≥3999m (4000m nominal)	250μm	1550 (1310)
FCS-70-17-50-250-λ-X	≥70.0mm	≤78mm	≤17mm	≥49m (50m nominal)	250μm	1550 (1310)
FCS-70-17-75-250-λ-X	≥70.0mm	≤78mm	≤17mm	≥74m (75m nominal)	250μm	1550 (1310)
FCS-70-17-100-250-λ-X	≥70.0mm	≤78mm	≤17mm	≥99m (100m nominal)	250μm	1550 (1310)
FCS-70-17-150-250-λ-X	≥70.0mm	≤78mm	≤17mm	≥149m (150m nominal)	250μm	1550 (1310)
FCS-70-30-400-250-λ-X	≥70.0mm	≤82mm	≤30mm	≥399m (400m nominal)	250μm	1550 (1310)
FCS-70-30-1000-250-λ-X	≥70.0mm	≤91mm	≤30mm	≥999m (1000m nominal)	250μm	1550 (1310)
FCS-70-25-667-250-λ-X	≥70.0mm	≤89mm	≤25mm	≥666m (667m nominal)	250μm	1550 (1310)
FCS-70-25-204-250-λ-X	≥70.0mm	≤80mm	≤25mm	≥203m (204m nominal)	250μm	1550 (1310)
FCS-70-36-3730-250-λ-X	≥70.0mm	≤118mm	≤36mm	≥3729m (3730m nominal)	250μm	1550 (1310)
FCS-70-33-4000-250-λ-X	≥70.0mm	≤127mm	≤33mm	≥3999m (4000m nominal)	250μm	1550 (1310)
FCS-70-20-136-250-λ-X	≥70.0mm	≤79mm	≤20mm	≥135m (136m nominal)	250μm	1550 (1310)
FCS-70-33-136-250-λ-X	≥70.0mm	≤79mm	≤33mm	≥135m (136m nominal)	250μm	1550 (1310)
FCS-125-11-200-250-λ-X	≥125.0mm	≤137mm	≤11mm	≥199m (200m nominal)	250μm	1550 (1310)
FCS-125-11-400-250-λ-X	≥125.0mm	≤146mm	≤11mm	≥399m (400m nominal)	250μm	1550 (1310)

Model	Inner Diameter (ID)	Outer Diameter (OD)	Coil Height	Coil Length (excluding pigtails)	Fiber diam.	Wavelength (nm)
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Notes:

1. All part numbers end with codes specifying wavelength and fiber type.

λ: wavelength specification. See available options in table.

15 = 1550nm

13 = 1310nm

X: fiber type specification

S = SM fiber

P = PM fiber