



Applications:

- Telecommunication
- CATV
- LAN and WAN
- Network
- Broadband
- FTTx

Features:

Stripability:

- Non-easy strip: easy stripping up to 10cm
- Easy strip: easy stripping up to 100cm

Length possibilities:

- All pigtails are available in 1.5m (Non-easy strip) and 2m (easy strip)

Buffer jacket diameter: 900µm

Buffer material:

- LSZH (Low Smoke Zero Halogen)

Boot material:

- TPV (ThermoPlastic Vulcanizate)

Buffer coloring:

- SingleMode, E9/125 → yellow
- SingleMode, E9/125 → 12 colors (DIN/VDE0888).
- MultiMode, 62.5/125 OM1 → gray
- MultiMode, 50/125 OM2 → orange
- MultiMode, 50/125 OM3 → aqua

Technical Specifications for SingleMode and Multimode:

Durability (1000 Mating): 0,2dB max Increase
 Storing temperature range: -25 °C to +50 °C
 Operating temperature range: -20 °C to +60 °C

Grade Classifications

Connector type	SC, LC, FC, ST, E2000			SC, LC, FC, ST, E2000			
	Premium B			Standard C			
	SM/APC	SM/PC	MM/PC OM3/4	SM/APC	SM/PC	MM/PC OM3/4	MM/PC
	Grade B/1	Grade B/2	Grade B/3	Grade C/1	Grade C/2	Grade C/3	Grade C/4
I.L. (97%)	≤0,15dB	≤0,15dB	≤0,25dB	≤30dB	≤30dB	≤30dB	≤30dB
I.L. typical value	≤0,12dB	≤0,12dB	≤0,20dB	≤25dB	≤25dB	≤25dB	≤25dB
R.L. (97%)	≥65dB	≥55dB	≥45dB	≥60dB	≥50dB	≥45dB	N/A
R.L. typical value	≥70dB	≥60dB	≥50dB	≥65dB	≥55dB	≥50dB	≥35dB

Attenuation Grade	Attenuation random mated IEC 61300-3-34	
A	≤0,07dB	97% of samples achieve at least ≤0,15dB max
B	≤0,12dB	97% of samples achieve at least ≤0,25dB max
C	≤0,25dB	97% of samples achieve at least ≤0,50dB max
D	≤0,50dB	97% of samples achieve at least ≤1,00dB max

Return Loss Grade	Return Loss Random mated (each to each) IEC 61300-3-6
Grade 1	≥60dB (mated) and ≥55dB(unmated)
Grade 2	≥45dB
Grade 3	≥35dB
Grade 4	≥26dB

Single mode fiber			9/125 μm OS2 G.652D
Chromatic dispersion:	at 1285-1330nm at 1550nm at 1530-1565nm at 1565-1625nm at 1460-1625nm	ps/(nm.km)	≤3.5 ≤18 - - -
Attenuation:	at 1310nm (typical/max.) at 1550nm (typical/max.) at 1625nm (typical/max.)	dB/km	0.31/0.35 0.20/0.24 0.21/0.26
Cable Cut-Off Wavelength (λ_{cc})		μm	≤1260
Mode Field Diameter:	at 1310nm at 1550nm	μm	9.2 ± 0.4 10.4 ± 0.5
Cladding Diameter		μm	125.0 ± 0.7
Clad Non-Circularity			≤1%
Coating Diameter		μm	235 - 245
Core/Clad Concentricity Error		μm	≤0.5
Coating-Clad Concentricity Error			≤12μm
Zero Dispersion Wavelength (λ₀)		nm	1302 - 1322
Group Refractive Index:	at 1310nm at 1550nm		1467 1468
Fiber PMD Individual fiber		ps/√km	0.1

Multi mode fiber			62.5/125 μm OM1	50/125 μm OM2	50/125 μm OM3
Bandwidth:	at 850nm at 1300nm	Mhz.km	≥220 ≥660	≥500 ≥500	≥1500 ≥500
Attenuation:	at 850nm (typical/max.) at 1300nm (typical/max.)	dB/km	2.6/3.2 0.5/1.0	2.0/3.0 0.5/1.2	2.0/3.0 0.5/1.1
Numerical Aperture		μm	0,275 ± 0,015	0,20 ± 0,015	0,20 ± 0,015
Core diameter		μm	62.5 ± 2.5	50.0 ± 2.5	50.0 ± 2.5
Core Non-Circularity		%	≤5	≤5	≤5
Cladding Diameter		μm	125 ± 1.0	125 ± 1.0	125 ± 1.0
Clad Non-Circularity		%	≤1	≤1	≤1
Coating Diameter		μm	245 ± 10	245 ± 10	245 ± 10
Coating Non-Circularity		%	≤5	≤5	≤5
Core/Clad Concentricity Error		μm	≤1.0	≤1.5	≤1.5
Coating-Clad Concentricity Error		μm	≤8	≤8	≤8
Zero Dispersion Wavelength (λ₀)		nm	1320 - 1365	1295 - 1340	1295 - 1340
Group Refractive Index:	at 850nm at 1300nm		1.496 1.491	1.483 1.479	1.483 1.479

Part Numbers

Single Mode

SC/APC, Grade B/1, Non-easy strip, 900µm, SM, 1.5m	FYB02.12115.1P5
SC/APC, Grade B/1, Non-easy strip, 900µm, SM, 1.5m, Color Code	FYB02.12115.1P5CL
SC/APC, Grade B/1, Easy strip, 900µm, SM, 2m	FYB02.12215.02
SC/PC, Grade B/2, Non-easy strip, 900µm, SM, 1.5m	FYB02.11115.1P5
SC/PC, Grade B/2, Non-easy strip, 900µm, SM, 1.5m, Color Code	FYB02.11115.1P5CL
SC/PC, Grade B/2, Easy strip, 900µm, SM, 2m	FYB02.11215.02

Multi Mode

SC/PC, Grade C/4, Non-easy strip, 900µm, MM 62.5/125 OM1, 1.5m	FYB02.11111.1P5
SC/PC, Grade C/4, Easy strip, 900µm, MM 62.5/125 OM1, 2m	FYB02.11211.02
SC/PC, Grade C/4, Non-easy strip, 900µm, MM 50/125 OM2, 1.5m	FYB02.11112.1P5
SC/PC, Grade C/4, Easy strip, 900µm, MM 50/125 OM2, 2m	FYB02.11212.12
SC/PC, Grade B/3, Non-easy strip, 900µm, MM 50/125 OM3, 1.5m	FYB02.11113.1P5
SC/PC, Grade B/3, Easy strip, 900µm, MM 50/125 OM3, 2m	FYB02.11213.02