

FEATURES:

- meets TIA/EIA 568-B.3 standard
- fiber meets ITU G652D & G655 and IEC60793-2
- connectors meet IEC60874 and IEC 61754
- environmental and mechanical tests based on IEC 61300-2-1,2,4,5,6,17, IEC61300-3-1,4,11 IEC 60332, IEC60754-1,2
- RoHS compliant



APPLICATIONS:

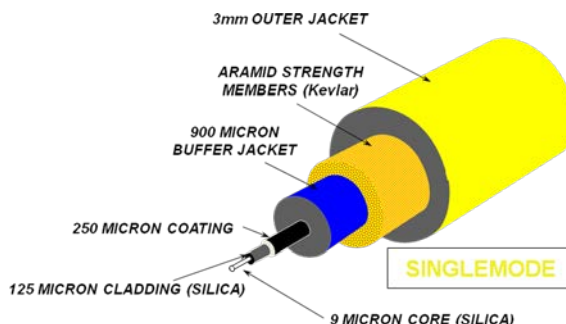
- telecom network, CATV, active device termination, local area network, end equipment

I. Fiber Characteristics

Geometrical Characteristics		
Mode field diameter at 1310nm		9±2.5um
Cladding diameter		125±0.7um
Core/Cladding Concentricity Error		≤ 0.5um
Cladding Non-Circularity		≤ 1%
Coating Diameter (uncolored)		243±7um
Core/Cladding Concentricity Error		≤ 8um
Mechanical Characteristics		
Proof test level		≥ 1%
Fiber Strength		10m, weibull lowest probability level: 2.76Gpa (15%)
Dynamic Corrosion parameter		≥ 20nd
Curl Radius		≥ 4m
Strip force	Average Value	1~5N
	Peak Value	1.3~8.9N
Operational Characteristics		
Temperature (-60°C ~ +85°C)		Additional attenuation ≤ 0.05dB/km is allowed at wavelength 1310nm and 1550nm
Immersing test (23±2°C,30days)		
Humidity and heat test condition (85°C ±2°C, above 85%rh, 30days)		
Heating aging test (85°C ±2°C, 30days)		

Premium Line Systems GmbH reserves the right to change specifications without prior notice.

II. Fiber Construction



III. Connector Mechanical Characteristics & Cord Performance

Type	FC	ST	SC	LC	MTRJ	
Connector Ferrule diameter	2.5mm	2.5mm	2.5mm	1.25mm	2.45x2.2mm	
IL	≤0.3dB	≤0.3dB	≤0.3dB	≤0.3dB	≤0.3dB	
RL	PC	≥40dB	≥40dB	≥40dB	≥40dB	≥40dB
	UPC	≥50dB	≥50dB	≥50dB	≥50dB	≥50dB
	APC	≥60dB	≥60dB	≥60dB	≥60dB	≥60dB
Working temperature	-20°C~60°C	-20°C~60°C	-20°C~60°C	-20°C~60°C	-20°C~60°C	
Repeatability	≤0.1dB	≤0.1dB	≤0.1dB	≤0.1dB	≤0.1dB	

IV. Patch cord Characteristics

Mechanical test	Additional loss
Mating durability: min.1000times	≤0.1dB
Cable retention:100N, 120s	≤0.2dB
Strength of coupling mechanism: 40N, 120s	≤0.1dB
Drop test: 1.5m, 5times	≤0.2dB
Vibration: 10-500Hz,1.5mm amplitude	≤0.1dB
Temperature test	Additional loss
Cold environment storage: -40°C, 96h	≤0.2dB
High temperature storage: +85°C, 96h	≤0.2dB
Temperature change: -40°C~+85°C, 20cycles	≤0.2dB
Damp heat: +25°C~+65°C, 93%RH,100h	≤0.2dB

ORDERING INFORMATION:

Description: Premium Line single mode 9/125um fiber optic patch cord

Part No:

FO SM patch cord	Cable Type	Connector Type		Length (m)
		A end	B end	
213: UPC	1: simplex, PVC, 3.0mm	1: SC/APC	1: SC/APC	010: 1.0m
	2: simplex, LSOH, 3.0mm	2: ST/APC	2: ST/APC	020: 2.0m
215: APC; APC/UPC	3: simplex, PVC, 2.0mm	3: FC/APC	3: FC/APC	030: 3.0m
	4: simplex, LSOH, 2.0mm	4: LC/APC	4: LC/APC	050: 5.0m
	5: duplex, PVC, 3.0mm	5: MTRJ	5: MTRJ	070: 7.0m
	6: duplex, LSOH, 3.0mm	6: SC/UPC	6: SC/UPC	100: 10.0m
	7: duplex, PVC, 2.0mm	7: ST/UPC	7: ST/UPC	900: 90.0m
	8: duplex, LSOH, 2.0mm	8: FC/UPC	8: FC/UPC	
		9: LC/UPC	9: LC/UPC	

Ex: 213566010 is SC/UPC-SC/UPC Duplex PVC Single mode 9/125um 1M

215814010 is SC/APC-LC/APC Duplex LSOH Single mode 9/125um 1M

Packing:

length	1m	2m	3m	5m	10m
	1pc on paper card in PE bag with test protocol				
Qty per box	30	30	25	20	15
Inner box dimension	29.2*21.2*21 cm				
Qty per carton	120	120	100	80	60
Outer carton dimension	45*30*47 cm				

Premium-Line Systems GmbH, Rosenheimer Str.89, D-83064 Raubling, Germany

► TEL: + 49(0)8035 9836 0 ► Fax: + 49(0)8035 9836 22