

**FEATURES:**

- meets TIA/EIA 568-B.3 standard
- fiber meets ITU G.652D 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
- RoHS compliant



**APPLICATIONS:**

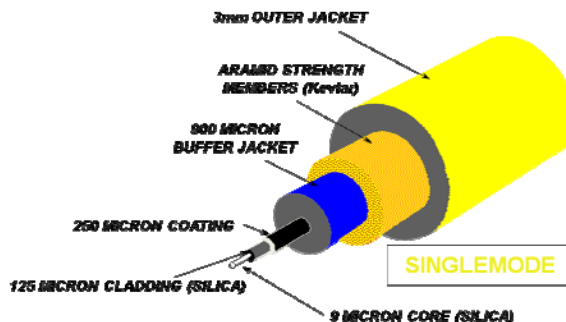
- telecom network, CATV, active device termination, local area network, end equipment

**I. Fiber Characteristics**

Geometrical Characteristics		
Mode field diameter at 1310nm		9.2±0.5um
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

**Part No. 213wxyz**

**Ver. 1103**

**Product Specification**

**ORDERING INFORMATION:**

Part No: 213wxyz

Description: Premium Line single mode 9/125 fiber optic patch cord, 3.0mm

w: jacket 5: duplex, PVC, 3.0mm 6: duplex, LSOH, 3.0mm  
7: duplex, PVC, 2.0mm 8: duplex, LSOH, 2.0mm

x, connector A 1: SC 2: ST 3: FC 4: LC 5: MTRJ  
6: SC/UPC 7: ST/UPC 8: FC/UPC 9: LC/UPC

y, connector B 1: SC 2: ST 3: FC 4: LC 5: MTRJ  
6: SC/UPC 7: ST/UPC 8: FC/UPC 9: LC/UPC

zzz: length 010: 1.0m, 020: 2.0m, 030: 3.0m, 050: 5.0m, 070: 7.0m, 100: 10.0m

**SM APC Patch Cord:**

Part No: 215wxyz

Description: Premium Line single mode 9/125 fiber optic patch cord, APC, 3.0mm

w: jacket 5: duplex, PVC, 3.0mm 6: duplex, LSOH, 3.0mm  
7: duplex, PVC, 2.0mm 8: duplex, LSOH, 2.0mm

x, connector A 1: SC 2: ST 3: FC 4: LC

y, connector B 1: SC 2: ST 3: FC 4: LC

zzz: length 010: 1.0m, 020: 2.0m, 030: 3.0m, 050: 5.0m, 070: 7.0m, 100: 10.0m

**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				

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