

## Patchcords & pigtails

Cellco Communications offers wide range of optical patchcords and pigtails.

The company has implemented and operates ISO 9000 quality systems awarded by LRQA.

We have put into practice a multistage process of assembling patch cords as well as measurement and quality control system. We measure, among other things:

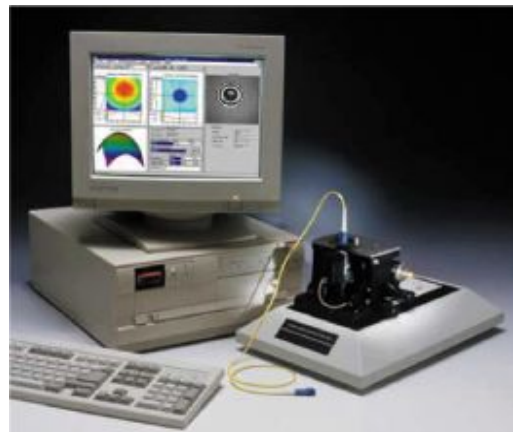
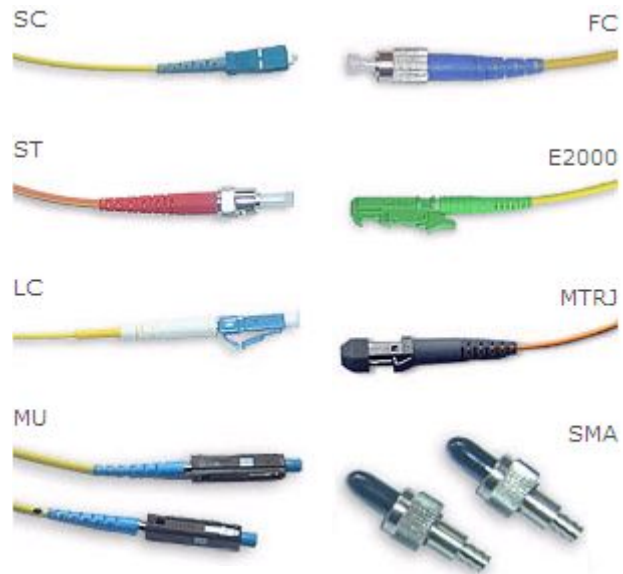
- ferrule quality (ferrule's front enlarged 400 times)
- insertion loss
- back reflection
- interferometric testing (IEC 61300-3-17)

A separate post of Quality Control ensures that deliveries are thoroughly checked and are reliable.

Offered types of connectors:

- SC/PC, SC/APC,
- FC/PC, FC/APC,
- ST/PC,
- E2000/PC E2000/APC (Reichle & DeMassari)
- LC/PC,
- MTRJ
- SMA
- MU

MM (MultiMode) 62,5/125, 50/125, 50/125(OM3)  
SM (SingleMode) 9/125 (G.652, G.655)



### TECHNICAL PARAMTERS – CONNECTORS SC,FC,ST

	SingleMode Connectors			MultiMode Connectors		
	Typ	Max/Min		Typ	Max/Min	
Insertion Loss (dB)	0,2	Max	0,3	0,2	Max	0,3
Return Loss (dB)	50 (PC) 70 (APC)	Min	45(PC) 65(APC)			
Durability	1000	1000		1000	1000	
Operating temp. C	-40 to + 75C			-40 to + 75C		
Interferometer tests	According to IEC 61300-3-17					
<b>OTHER PARAMTERS</b>						
Length (m)	Standard 0,2m to 30m, other on request					
Diameter of cable (mm)	Simplex 1,8; 2,0; 2,4; 2,8mm Duplex 2xsimplex 0,9mm – pigtail cable					
Boot color	PC – BLUE APC - GREEN			RED and BLACK		
Cable color	G.652 YELLOW G.655 RED OTHER ON REQUEST			ORANGE OTHER ON REQUEST		

## TECHNICAL PARAMTERS – CONNECTORS E2000

SingleMode Connectors			
	Typ	Max/Min	
Insertion Loss (dB)	0,15	Max	0,3
<b>Premium version</b>	<b>0,10</b>	<b>Max</b>	<b>0,15</b>
Return Loss (dB)	55 (PC)	Min	45(PC)
	75 (APC)		65(APC)
Durability	1000	1000	
Operating temp. C	-40 to + 75C		
Interferometer tests	According to IEC 61300-3-17		
Length (m)	Standard 0,2m to 30m, other on request		
Diameter of cable (mm)	Simplex 1,8; 2,0; 2,4; 2,8mm Duplex 2xsimplex 0,9mm – pigtail cable		
Boot color	PC – BLUE APC - GREEN		
Cable color	G.652 YELLOW G.655 RED OTHER ON REQUEST		

## TECHNICAL PARAMTERS – CONNECTORS LC/PC

SingleMode Connectors			
	Typ	Max/Min	
Insertion Loss (dB)	0,15	Max	0,3
<b>Premium version</b>	<b>0,1</b>	<b>Max</b>	<b>0,15</b>
Return Loss (dB)	55 (PC)	Min	45(PC)
Durability	1000	1000	
Operating temp. C	-40 to + 75C		
Interferometer tests	According to IEC 61300-3-17		
Length (m)	Standard 0,2m to 30m, other on request		
Diameter of cable (mm)	Simplex 1,8; Duplex 2xsimplex 0,9mm – pigtail cable		
Boot color	PC – BLUE		
Cable color	G.652 YELLOW G.655 RED OTHER ON REQUEST		

## TECHNICAL PARAMTERS – CONNECTORS MTRJ

MultiMode Connectors			
	Typ	Max/Min	
Insertion Loss (dB)	0,25	Max	0,3
Return Loss (dB)		Min	
Durability	1000	1000	
Operating temp. C	-40 to + 75C		
Interferometer tests	According to IEC 61300-3-17		
Length (m)	Standard 0,2m to 30m, other on request		
Diameter of cable (mm)	Duplex 2x1,8mm 2x0,9mm – pigtail cable		
Boot color	PC – BLUE		
Cable color	ORANGE OTHER ON REQUEST		

## GEOMETRICAL PARAMTERS

<i>PC Connectors</i>	<i>GR-326 Core Belcore</i>	<i>86B/1300-3-23 IEC</i>	<i>Ours (Cellco)</i>
Radius of Curvature	10-25mm	10-30mm	10-25mm
Fiber Height (Spherical)	+/- 50nm	+/- 100nm	+/- 50nm
Apex Offset	0-50um	0-50um	0-50um
Angular	0 – 0.2deg	0 – 0.2deg	0 – 0.2deg
Fiber Roughness (Ra)	0-50nm	0-50nm	0-25nm
Fiber Roughness (Rq)	0-50nm	0-50nm	0-25nm
Ferrule Roughness (Ra)	0-50nm	0-50nm	0-25nm
Ferrule Roughness (Rq)	0-50nm	0-50nm	0-25nm
<i>APC Connectors</i>	<i>GR-326 Core Belcore</i>	<i>86B/1300-3-23 IEC</i>	<i>Ours (Cellco)</i>
Radius of Curvature	10-25mm	10-30mm	5-12mm
Fiber Height (Spherical)	+/- 50nm	+/- 100nm	+/- 50nm
Apex Offset	0-50um	0-50um	0-50um
APC Polish Angle	7.7 – 8.3 deg	7.7 – 8.3 deg	7.7 – 8.3 deg
APC Keying Offset (Key Error)	+/- 0.5deg	+/- 0.5deg	+/- 0.3deg
Fiber Roughness (Ra)	0-50nm	0-50nm	0-25nm
Fiber Roughness (Rq)	0-50nm	0-50nm	0-25nm
Ferrule Roughness (Ra)	0-50nm	0-50nm	0-25nm
Ferrule Roughness (Rq)	0-50nm	0-50nm	0-25nm