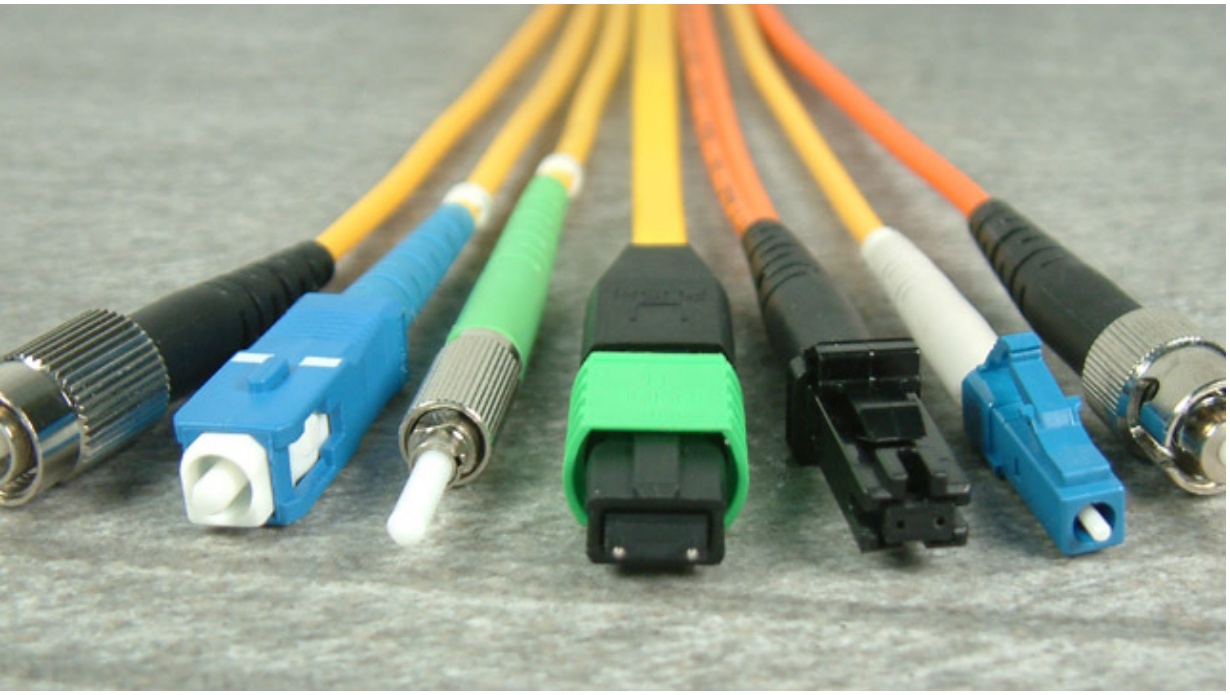
FIBER OPTIC PATCH CORDS

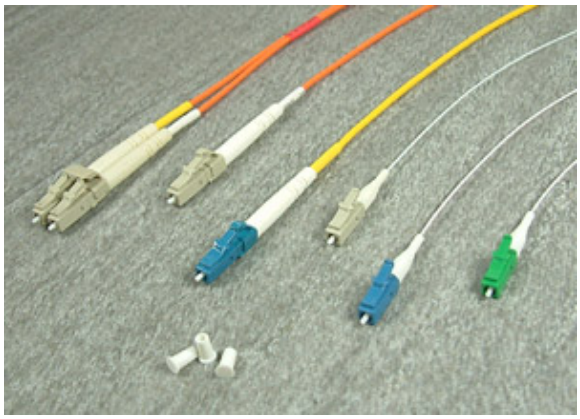


LC, SC, FC, ST, E2000, DIN, MU, MTRJ, D4, ESCON, BICONIC, etc.

PACIFIC
INTERCONNECTIONS
- connecting the world with fiber optics

LC FIBER OPTIC PATCH CORDS

Description



The LC connectors used are small form-factor fiber optic connectors resembling miniature SC connectors with high quality 1.25mm zirconia ferrules and push-pull latching mechanism. They are fully compatible with existing LC hardware.

In addition to basic testing, some mechanical and environmental tests per IEC or Telcordia are also performed periodically to guarantee the best quality. For standard patch cords, sampling check is performed on ferrule geometry to ensure high percentage of polished connectors meeting GR-326 requirements. For premium grade, ferrule geometry is tested on all patch cords to meet these GR-326 requirements.

Other than standard single mode and multimode fibers, G655, OM2, and OM3 fibers are also available upon request. Flame retardant grade cable sheathing options are offered. Riser rated cable will be provided as standard. LSZH and Plenum can be provided upon request.

Features

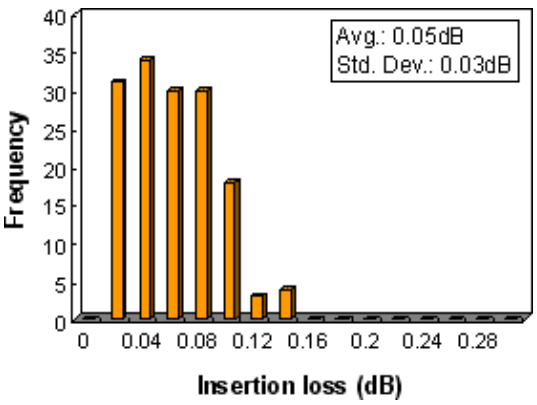
- Small form factor design
- Pull-proof
- Non-optical disconnect performance
- High quality zirconia ferrules
- Materials meet RoHS requirements
- Riser, Plenum, and LSZH cables available

Applications

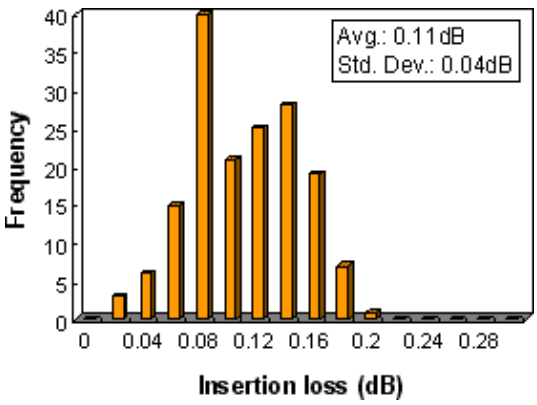
- Telecommunication
- Computer networks
- CATV networks
- Active device termination
- Instrumentation

Optical Performance Distribution

Insertion Loss, MM 62.5/125um



Insertion Loss, SM 9/125um PC



* Typical performance charts and actual data may vary from lot to lot.

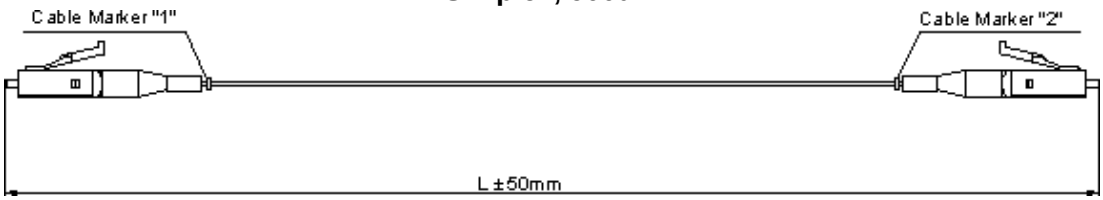
Specifications

Characteristics	Unit	Value/Performance			Comments
		SM		MM	
		PC	APC		
Basic					
Insertion Loss (IL)	dB	≤0.3			IEC 61300-3-4
Return Loss (RL)	dB	SPC≥45 UPC≥50	≥60	≥23	IEC 61300-3-6
Endurance	dB	ΔIL≤0.2			IEC 61300-2-2, coupling and uncoupling 500 cycles, clean every 25 cycles
Operating Temperature	°C	-20 ~ +70			
Storage Temperature	°C	-40 ~ +70			
Ferrule end-face geometry					
Radius of Curvature (R)	mm	7-25	5-12	NA	Telcordia GR326(4.4.5)
Apex Offset	um	≤50		NA	Telcordia GR325(4.4.5)
Fiber Protrusion	nm	≤50	≤100	NA	Telcordia GR326(4.4.5)
Fiber Under Cut	nm	≤125@ R=7-10	≤100	NA	Telcordia GR326(4.4.5). For PC, Under Cut ≤$-0.02R^3+1.3R^2-31R+325$ when R=10-25mm
Mechanical					
Drop	dB	ΔIL≤0.2			IEC 61300-2-12, 1.5m, 5 drops, no damage
Vibration	dB	ΔIL≤0.2			IEC 61300-2-1, 10-55Hz, 0.75mm amplitude, 0.5 hrs/axis
Flex	dB	ΔIL≤0.2			Telcordia GR326(4.4.3.2), 0.6kg, ±90°, 100cycles, for 2mm or larger cable
Twist	dB	ΔIL≤0.2			Telcordia GR326(4.4.3.3), 1.35kg load, ±2.5 turns, 10 cycles, for 2mm or larger cable
Pull Proof	dB	ΔIL≤0.2			Telcordia GR326(4.4.3.4), 2.3kg at 90°, 6.8kg at 0°, for 2mm or larger cable
Coupling strength	dB	ΔIL≤0.2			IEC 61300-2-6, 4.2kg, 2min
Static Bending	dB	ΔIL≤0.2			IEC 794-1-2, 60mm diameter 10 turns
Crushing	dB	ΔIL≤0.2			IEC 794-1-2, 102kg for 2mm or larger cable, 10.2kg for 900m cable
Environmental					
Cold	dB	ΔIL≤0.2			IEC 61300-2-17, -20°C, 96 hrs
Dry Heat	dB	ΔIL≤0.2			IEC 61300-2-18, 70°C, 96 hrs
Damp Heat	dB	ΔIL≤0.2			IEC 61300-2-19, 40°C, 95%RH, 96 hrs

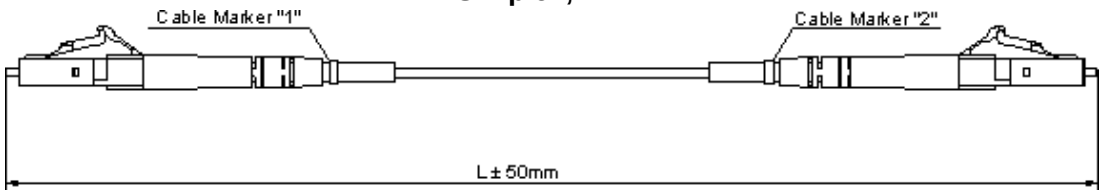
Transmission							
Characteristics	**Unit**	**G652 SM**	**G655 SM**	**Std. 50um**	**62.5um**	**OM2**	**OM3**
Max. Attenuation	dB/km (nm)	0.4/0.3 (1310/1550)	0.3 (1550)	2.8 (850)	3.0 (850)	2.8 (850)	2.8 (850)
Min. Bandwidth	MHz•km (nm)	-	-	500/500 (850/1300)	200/200 (850/1300)	750 (850)	2000 (850)
Dispersion Coefficient	ps/ nm^2•km	≤3.0 (1310nm)	2.6-6.0 (1550nm)	-	-	-	-

Dimensional Drawing

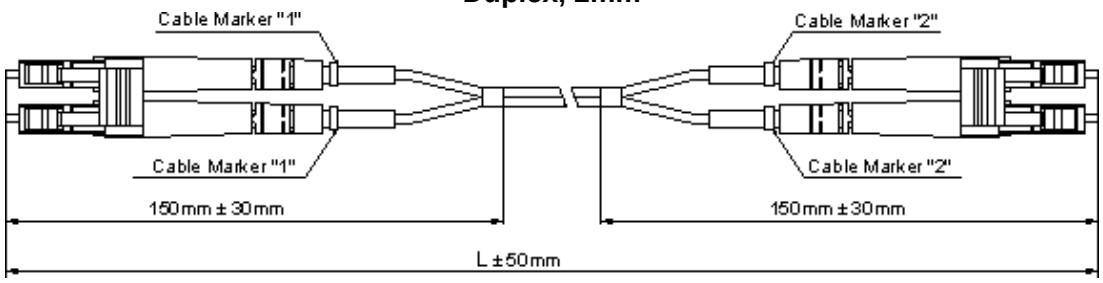
Simplex, 900um



Simplex, 2mm



Duplex, 2mm



Ordering Information

Part Number: **PC- L U L U S R P 2.0- 3**

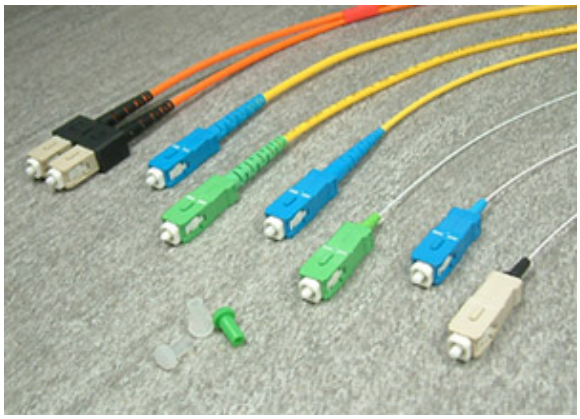
1 2 3 4 5 6 7 8 9

1	Connector #1	L=LC, S=SC, T=ST, F=FC, E2=E2000, DN=DIN, M=MU, MR=MTRJ, etc.
2	Finish 1 or Gender 1	S=SPC, U=UPC, A=APC, P=PC; for MTRJ, F=Female, M=Male
3	Connector #2	P=Pigtail (no connector at this end), L=LC, S=SC, T=ST, F=FC, E2=E2000, DN=DIN, M=MU, MR=MTRJ, etc.
4	Finish 2 or Gender 2	S=SPC, U=UPC, A=APC, P=PC; for MTRJ, F=Female, M=Male, T=Pigtail
5	Cable Type	S=Simplex, D=Duplex Straight, X=Duplex Reverse
6	Fiber	R=SM(G652), K=62.5um, C=50um, B=OM2, A=OM3, W=SM(G655)
7	Cable Jacket	R=Riser, P=Plenum, L=LSZH
8	Cable Diameter	2.0=Ø2.0mm, 3.0=Ø3.0mm, 0.9=Ø0.9mm, etc.
9	Cable Length	Length in meter, i.e. 3=3m

Products manufactured in
ISO 9001 certified facilities

SC FIBER OPTIC PATCH CORDS

Description



The SC* connectors used for our patch cords are designed to NTT-SC* standards and are fully compatible with existing SC hardware. Two simplex connectors can be configured into a duplex format by adding a duplex clip.

In addition to basic testing, some mechanical and environmental tests per IEC or Telcordia are also performed periodically to guarantee the best quality. For standard patch cords, sampling check is performed on ferrule geometry to ensure high percentage of polished connectors meeting GR-326 requirements. For premium grade, ferrule geometry is tested on all patch cords to meet these GR-326 requirements.

Other than standard single mode and multimode fibers, G655, OM2, and OM3 fibers are also available upon request. Flame retardant grade cable sheathing options are offered. Riser rated cable will be provided as standard. LSZH and Plenum can be provided upon request.

*NTT-SC is a trademark of NTT Advanced Technology Corp.

Features

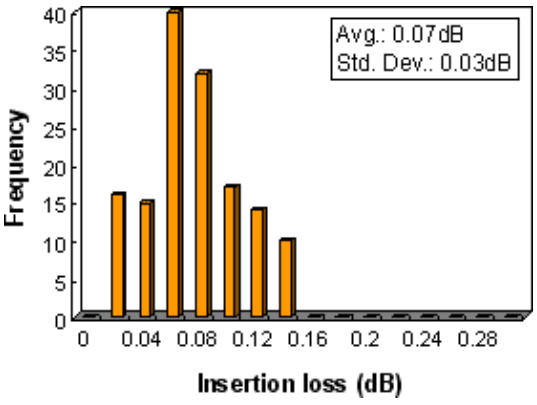
- Push-pull latching mechanism
- Non-optical disconnect performance
- High quality zirconia ferrules
- Materials meet RoHS requirements
- Riser, Plenum, and LSZH cables available

Applications

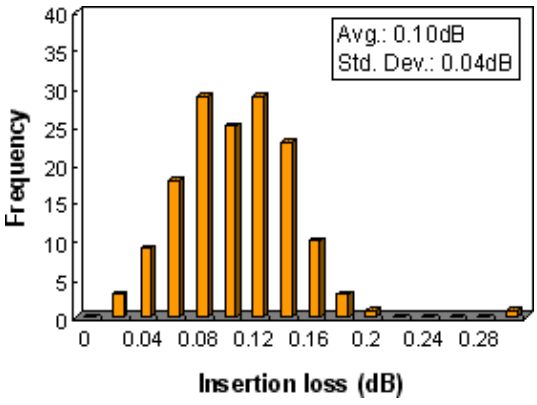
- Telecommunication
- Computer networks
- CATV networks
- Active device termination
- Instrumentation

Optical Performance Distribution

Insertion Loss, MM 62.5/125um



Insertion Loss, SM 9/125um PC



* Typical performance charts and actual data may vary from lot to lot.

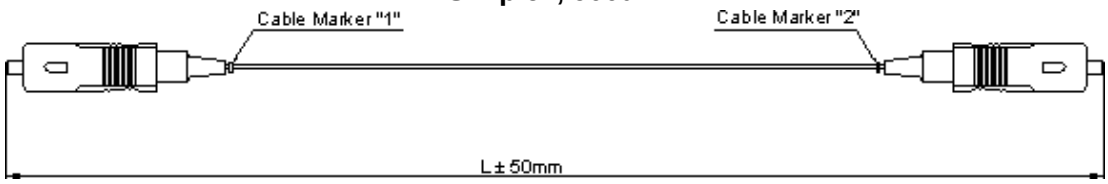
Specifications

Characteristics	Unit	Value/Performance			Comments
		SM		MM	
		PC	APC		
Basic					
Insertion Loss (IL)	dB	≤0.3			IEC 61300-3-4
Return Loss (RL)	dB	SPC≥45 UPC≥50	≥60	≥23	IEC 61300-3-6
Endurance	dB	ΔIL≤0.2			IEC 61300-2-2, coupling and uncoupling 500 cycles, clean every 25 cycles
Operating Temperature	°C	-20 ~ +70			
Storage Temperature	°C	-40 ~ +70			
Ferrule end-face geometry					
Radius of Curvature (R)	mm	7-25	5-12	NA	Telcordia GR326(4.4.5)
Apex Offset	um	≤50		NA	Telcordia GR325(4.4.5)
Fiber Protrusion	nm	≤50	≤100	NA	Telcordia GR326(4.4.5)
Fiber Under Cut	nm	≤125@ R=7-10	≤100	NA	Telcordia GR326(4.4.5). For PC, Under Cut ≤$-0.02R^3+1.3R^2-31R+325$ when R=10-25mm
Mechanical					
Drop	dB	ΔIL≤0.2			IEC 61300-2-12, 1.5m, 5 drops, no damage
Vibration	dB	ΔIL≤0.2			IEC 61300-2-1, 10-55Hz, 0.75mm amplitude, 0.5 hrs/axis
Flex	dB	ΔIL≤0.2			Telcordia GR326(4.4.3.2), 0.9kg, ±90°, 100cycles, for 2mm or larger cable
Twist	dB	ΔIL≤0.2			Telcordia GR326(4.4.3.3), 1.35kg load, ±2.5 turns, 10 cycles, for 2mm or larger cable
Pull Proof	dB	ΔIL≤0.2			Telcordia GR326(4.4.3.4), 3.4kg at 90°, 6.8kg at 0°, for 2mm or larger cable
Coupling strength	dB	ΔIL≤0.2			IEC 61300-2-6, 4.2kg, 2min
Static Bending	dB	ΔIL≤0.2			IEC 794-1-2, 60mm diameter 10 turns
Crushing	dB	ΔIL≤0.2			IEC 794-1-2, 102kg for 2mm or larger cable, 10.2kg for 900m cable
Environmental					
Cold	dB	ΔIL≤0.2			IEC 61300-2-17, -20°C, 96 hrs
Dry Heat	dB	ΔIL≤0.2			IEC 61300-2-18, 70°C, 96 hrs
Damp Heat	dB	ΔIL≤0.2			IEC 61300-2-19, 40°C, 95%RH, 96 hrs

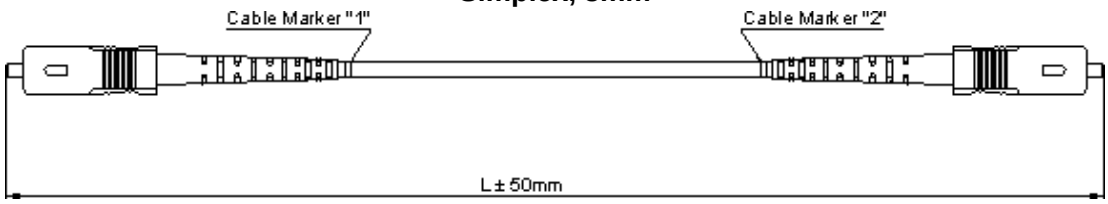
Transmission							
Characteristics	**Unit**	**G652 SM**	**G655 SM**	**Std. 50um**	**62.5um**	**OM2**	**OM3**
Max. Attenuation	dB/km (nm)	0.4/0.3 (1310/1550)	0.3 (1550)	2.8 (850)	3.0 (850)	2.8 (850)	2.8 (850)
Min. Bandwidth	MHz•km (nm)	-	-	500/500 (850/1300)	200/200 (850/1300)	750 (850)	2000 (850)
Dispersion Coefficient	ps/ nm^2•km	≤3.0 (1310nm)	2.6-6.0 (1550nm)	-	-	-	-

Dimensional Drawing

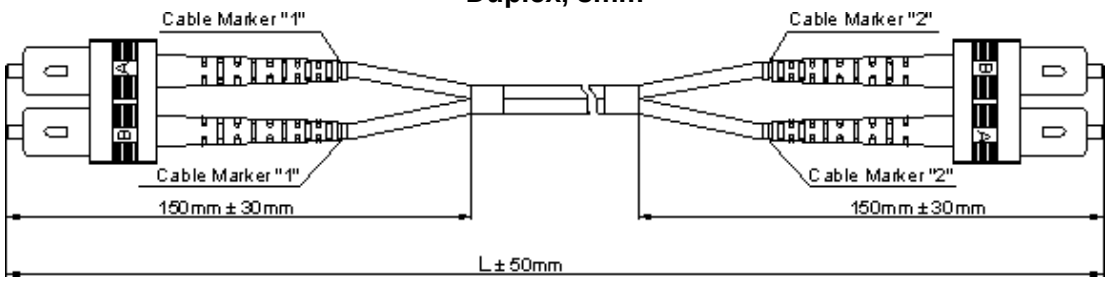
Simplex, 900um



Simplex, 3mm



Duplex, 3mm



Ordering Information

Part Number: **PC- S A S U X R R 3.0- 6**

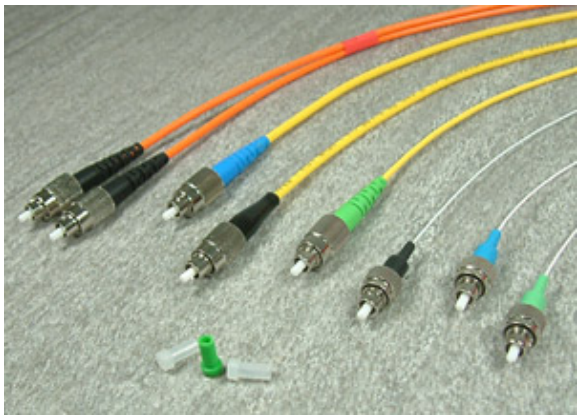
1 2 3 4 5 6 7 8 9

1	Connector #1	S=SC, F=FC, T=ST, L=LC, E2=E2000, DN=DIN, M=MU, MR=MTRJ, etc.
2	Finish 1 or Gender 1	S=SPC, U=UPC, A=APC, P=PC; for MTRJ, F=Female, M=Male
3	Connector #2	P=Pigtail (no connector at this end), S=SC, F=FC, T=ST, L=LC, etc.
4	Finish 2 or Gender 2	S=SPC, U=UPC, A=APC, P=PC; for MTRJ, F=Female, M=Male, T=Pigtail
5	Cable Type	S=Simplex, D=Duplex Straight, X=Duplex Reverse
6	Fiber	R=SM(G652), K=62.5um, C=50um, B=OM2, A=OM3, W=SM(G655)
7	Cable Jacket	R=Riser, P=Plenum, L=LSZH
8	Cable Diameter	3.0=Ø3.0mm, 2.0=Ø2.0mm, 0.9=Ø0.9mm, etc.
9	Cable Length	Length in meter, i.e. 6=6m

Products manufactured in
ISO 9001 certified facilities

FC FIBER OPTIC PATCH CORDS

Description



The FC* connectors used in our patch cords are designed to NTT-FC* standards with high quality zirconia ferrules and non-optical disconnect performance. They are fully compatible with existing FC hardware.

In addition to basic testing, some mechanical and environmental tests per IEC or Telcordia are also performed periodically to guarantee the best quality. For standard patch cords, sampling check is performed on ferrule geometry to ensure high percentage of polished connectors meeting GR-326 requirements. For premium grade, ferrule geometry is tested on all patch cords to meet these GR-326 requirements.

Other than standard single mode and multimode fibers, G655, OM2, and OM3 fibers are also available upon request. Flame retardant grade cable sheathing options are offered. Riser rated cable will be provided as standard. LSZH and Plenum can be provided upon request.

*NTT-FC is a trademark of NTT Advanced Technology Corp.

Features

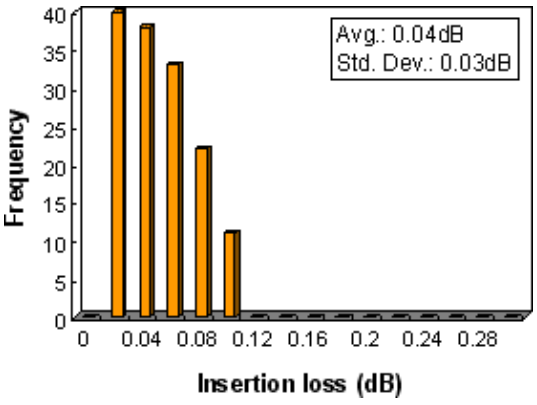
- Non-optical disconnect performance
- High quality zirconia ferrules
- Low insertion loss and high return loss
- Materials meet RoHS requirements
- Riser, Plenum, and LSZH cables available

Applications

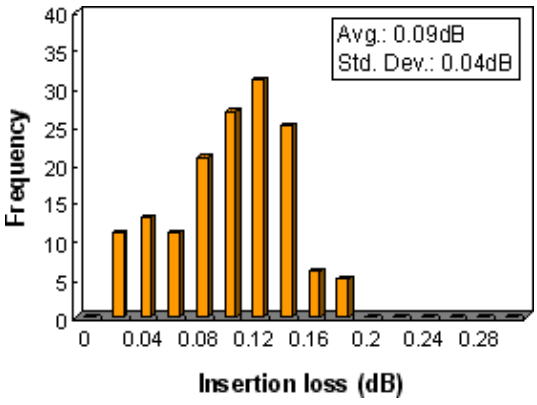
- Telecommunication
- Computer networks
- CATV networks
- Active device termination
- Instrumentation

Optical Performance Distribution

Insertion Loss, MM 62.5/125um



Insertion Loss, SM 9/125um PC



* Typical performance charts and actual data may vary from lot to lot.

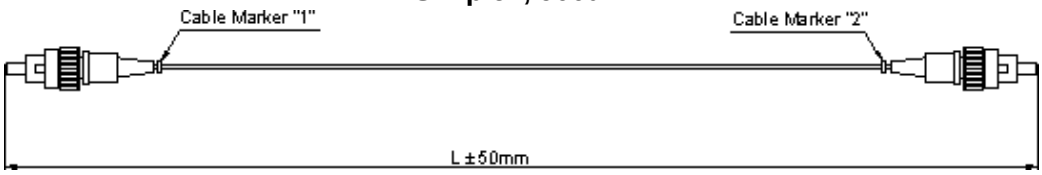
Specifications

Characteristics	Unit	Value/Performance			Comments
		SM		MM	
		PC	APC		
Basic					
Insertion Loss (IL)	dB	≤0.3			IEC 61300-3-4
Return Loss (RL)	dB	SPC≥45 UPC≥50	≥60	≥23	IEC 61300-3-6
Endurance	dB	ΔIL≤0.2			IEC 61300-2-2, coupling and uncoupling 500 cycles, clean every 25 cycles
Operating Temperature	°C	-20 ~ +70			
Storage Temperature	°C	-40 ~ +70			
Ferrule end-face geometry					
Radius of Curvature (R)	mm	7-25	5-12	NA	Telcordia GR326(4.4.5)
Apex Offset	um	≤50		NA	Telcordia GR325(4.4.5)
Fiber Protrusion	nm	≤50	≤100	NA	Telcordia GR326(4.4.5)
Fiber Under Cut	nm	≤125@ R=7-10	≤100	NA	Telcordia GR326(4.4.5). For PC, Under Cut ≤$-0.02R^3+1.3R^2-31R+325$ when R=10-25mm
Mechanical					
Drop	dB	ΔIL≤0.2			IEC 61300-2-12, 1.5m, 5 drops, no damage
Vibration	dB	ΔIL≤0.2			IEC 61300-2-1, 10-55Hz, 0.75mm amplitude, 0.5 hrs/axis
Flex	dB	ΔIL≤0.2			Telcordia GR326(4.4.3.2), 0.9kg, ±90°, 100cycles, for 2mm or larger cable
Twist	dB	ΔIL≤0.2			Telcordia GR326(4.4.3.3), 1.35kg load, ±2.5 turns, 10 cycles, for 2mm or larger cable
Pull Proof	dB	ΔIL≤0.2			Telcordia GR326(4.4.3.4), 3.4kg at 90°, 6.8kg at 0°, for 2mm or larger cable
Static Bending	dB	ΔIL≤0.2			IEC 794-1-2, 60mm diameter 10 turns
Crushing	dB	ΔIL≤0.2			IEC 794-1-2, 102kg for 2mm or larger cable, 10.2kg for 900m cable
Environmental					
Salt mist		No sign of corrosion			IEC 61300-2-26, 5% NaC1, 30°C, 7 days
Cold	dB	ΔIL≤0.2			IEC 61300-2-17, -20°C, 96 hrs
Dry Heat	dB	ΔIL≤0.2			IEC 61300-2-18, 70°C, 96 hrs
Damp Heat	dB	ΔIL≤0.2			IEC 61300-2-19, 40°C, 95%RH, 96 hrs

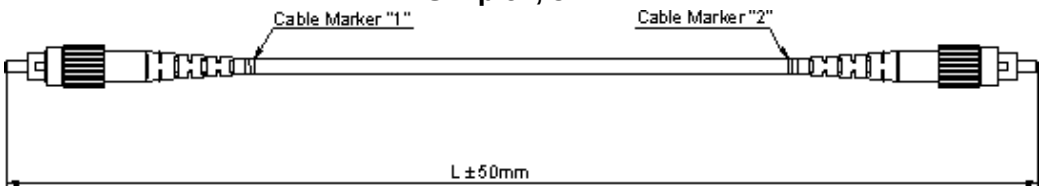
Transmission							
Characteristics	**Unit**	**G652 SM**	**G655 SM**	**Std. 50um**	**62.5um**	**OM2**	**OM3**
Max. Attenuation	dB/km (nm)	0.4/0.3 (1310/1550)	0.3 (1550)	2.8 (850)	3.0 (850)	2.8 (850)	2.8 (850)
Min. Bandwidth	MHz•km (nm)	-	-	500/500 (850/1300)	200/200 (850/1300)	750 (850)	2000 (850)
Dispersion Coefficient	ps/ nm^2•km	≤3.0 (1310nm)	2.6-6.0 (1550nm)	-	-	-	-

Dimensional Drawing

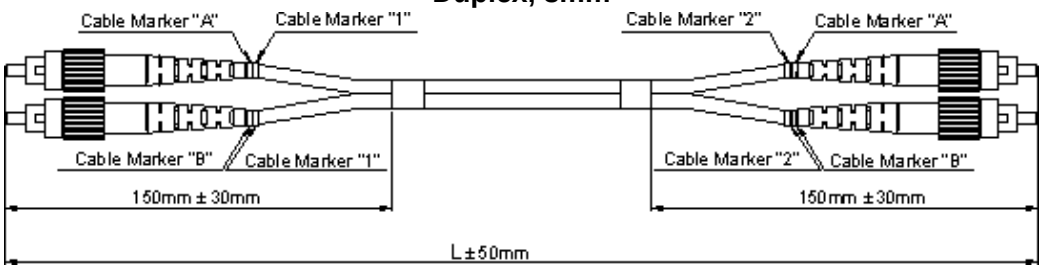
Simplex, 900um



Simplex, 3mm



Duplex, 3mm



Ordering Information

Part Number: **PC- F U F U S R P 3.0- 5**
1 2 3 4 5 6 7 8 9

1	Connector #1	F=FC, S=SC, T=ST, L=LC, E2=E2000, DN=DIN, M=MU, MR=MTRJ, etc.
2	Finish 1 or Gender 1	S=SPC, U=UPC, A=APC, P=PC; for MTRJ, F=Female, M=Male
3	Connector #2	P=Pigtail (no connector at this end), F=FC, S=SC, T=ST, L=LC, etc.
4	Finish 2 or Gender 2	S=SPC, U=UPC, A=APC, P=PC; for MTRJ, F=Female, M=Male, T=Pigtail
5	Cable Type	S=Simplex, D=Duplex
6	Fiber	R=SM(G652), K=62.5um, C=50um, B=OM2, A=OM3, W=SM(G655)
7	Cable Jacket	R=Riser, P=Plenum, L=LSZH
8	Cable Diameter	3.0=Ø3.0mm, 2.0=Ø2.0mm, 0.9=Ø0.9mm, etc.
9	Cable Length	Length in meter, i.e. 5=5m

Products manufactured in
ISO 9001 certified facilities

ST FIBER OPTIC PATCH CORDS

Description

The ST* connectors used in our patch cords employ half-twist bayonet locking mechanism and high quality 2.5mm zirconia ferrules. They are fully compatible with existing ST type hardware.

In addition to basic testing, some mechanical and environmental tests per IEC or Telcordia are also performed periodically to guarantee the best quality. For standard patch cords, sampling check is performed on ferrule geometry to ensure high percentage of polished connectors meeting GR-326 requirements. For premium grade, ferrule geometry is tested on all patch cords to meet these GR-326 requirements.

Other than standard single mode and multimode fibers, OM2, and OM3 fibers are also available upon request. Flame retardant grade cable sheathing options are offered. Riser rated cable will be provided as standard. LSZH and Plenum can be provided upon request.

*ST is a trademark of Lucent Technologies

Features

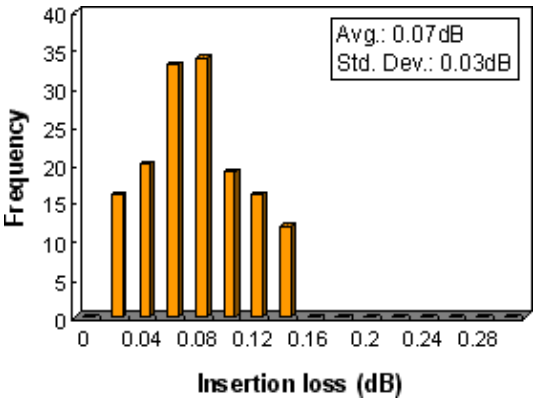
- ST compatible bayonet coupling
- Metal body and zirconia ferrule
- Low insertion loss and high return loss
- Materials meet RoHS requirements
- Riser, Plenum, and LSZH cables available

Applications

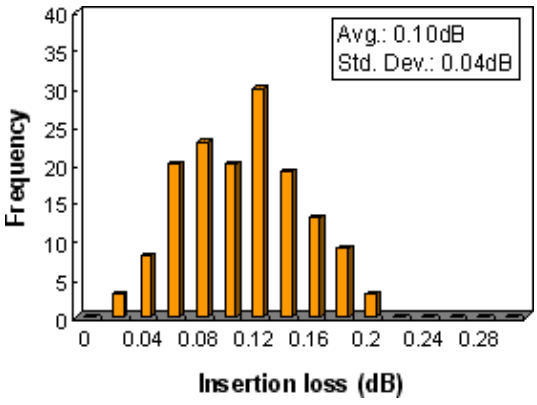
- Local Area Networks
- Fast Ethernet
- Fiber Channel
- ATM Networks
- Instrumentation

Optical Performance Distribution

Insertion Loss, MM 62.5/125um



Insertion Loss, SM 9/125um



* Typical performance charts and actual data may vary from lot to lot.

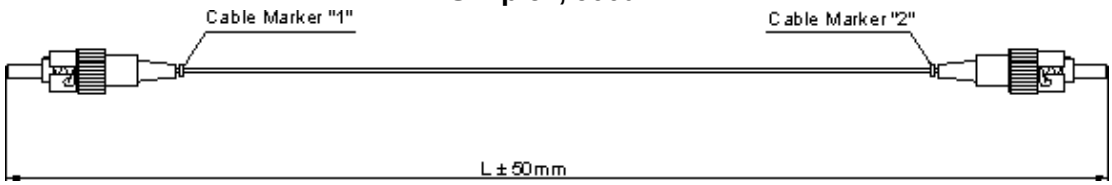
Specifications

Characteristics	Unit	Value/Performance			Comments
		SM		MM	
		SPC	UPC		
Basic					
Insertion Loss (IL)	dB	≤0.3			IEC 61300-3-4
Return Loss (RL)	dB	≥45	≥50	≥23	IEC 61300-3-6
Endurance	dB	ΔIL≤0.2			IEC 61300-2-2, coupling and uncoupling 500 cycles, clean every 25 cycles
Operating Temperature	°C	-20 ~ +70			
Storage Temperature	°C	-40 ~ +70			
Ferrule end-face geometry					
Radius of Curvature (R)	mm	7-25		NA	Telcordia GR326(4.4.5)
Apex Offset	um	≤50		NA	Telcordia GR325(4.4.5)
Fiber Protrusion	nm	≤50		NA	Telcordia GR326(4.4.5)
Fiber Under Cut	nm	≤125 @R=7-10		NA	Telcordia GR326(4.4.5). For PC, Under Cut ≤$-0.02R^3+1.3R^2-31R+325$ when R=10-25mm
Mechanical					
Drop	dB	ΔIL≤0.2			IEC 61300-2-12, 1.5m, 5 drops, no damage
Vibration	dB	ΔIL≤0.2			IEC 61300-2-1, 10-55Hz, 0.75mm amplitude, 0.5 hrs/axis
Flex	dB	ΔIL≤0.2			Telcordia GR326(4.4.3.2), 0.9kg, ±90°, 100cycles, for 2mm or larger cable
Twist	dB	ΔIL≤0.2			Telcordia GR326(4.4.3.3), 1.35kg load, ±2.5 turns, 10 cycles, for 2mm or larger cable
Pull Proof	dB	ΔIL≤0.2			Telcordia GR326(4.4.3.4), 3.4kg at 90°, 6.8kg at 0°, for 2mm or larger cable
Static Bending	dB	ΔIL≤0.2			IEC 794-1-2, 60mm diameter 10 turns
Crushing	dB	ΔIL≤0.2			IEC 794-1-2, 102kg for 2mm or larger cable, 10.2kg for 900m cable
Environmental					
Salt mist		No sign of corrosion			IEC 61300-2-26, 5% NaC1, 30°C, 7 days
Cold	dB	ΔIL≤0.2			IEC 61300-2-17, -20°C, 96 hrs
Dry Heat	dB	ΔIL≤0.2			IEC 61300-2-18, 70°C, 96 hrs
Damp Heat	dB	ΔIL≤0.2			IEC 61300-2-19, 40°C, 95%RH, 96 hrs
Transmission					

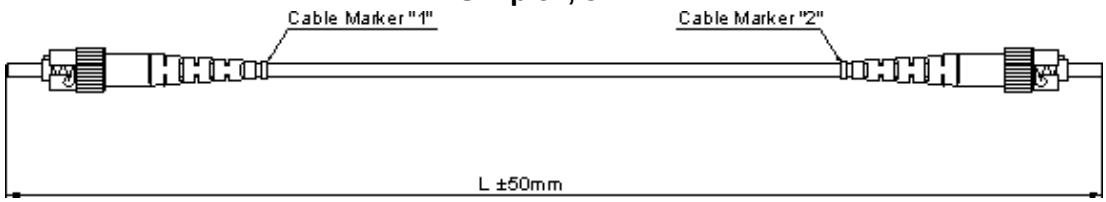
Characteristics	Unit	G652 SM	Std. 50um	62.5um	OM2	OM3
Max. Attenuation	dB/km (nm)	0.4/0.3 (1310/1550)	2.8 (850)	3.0 (850)	2.8 (850)	2.8 (850)
Min. Bandwidth	MHz•km (nm)	-	500/500 (850/1300)	200/200 (850/1300)	750 (850)	2000 (850)
Dispersion Coefficient	ps/ nm^2•km	≤3.0 (1310nm)	-	-	-	-

Dimensional Drawing

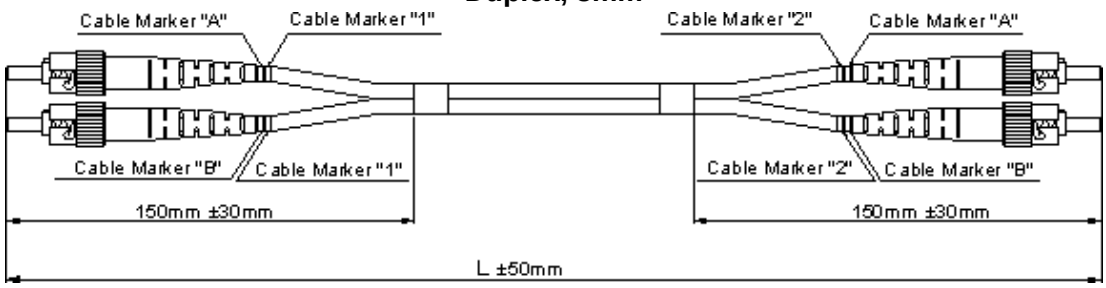
Simplex, 900um



Simplex, 3mm



Duplex, 3mm



Ordering Information

Part Number: **PC- T P T P D K R 3.0- 5**

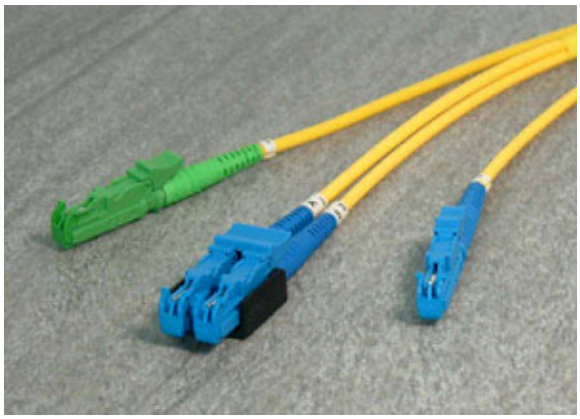
1 2 3 4 5 6 7 8 9

1	Connector #1	T=ST, S=SC, F=FC, L=LC, E2=E2000, DN=DIN, M=MU, MR=MTRJ, etc.
2	Finish 1 or Gender 1	S=SPC, U=UPC, A=APC, P=PC; for MTRJ, F=Female, M=Male
3	Connector #2	P=Pigtail (no connector at this end), T=ST, S=SC, F=FC, L=LC, etc.
4	Finish 2 or Gender 2	S=SPC, U=UPC, A=APC, P=PC; for MTRJ, F=Female, M=Male, T=Pigtail
5	Cable Type	S=Simplex, D=Duplex
6	Fiber	R=SM(G652), K=62.5um, C=50um, B=OM2, A=OM3
7	Cable Jacket	R=Riser, P=Plenum, L=LSZH
8	Cable Diameter	3.0=Ø3.0mm, 2.0=Ø2.0mm, 0.9=Ø0.9mm, etc.
9	Cable Length	Length in meter, i.e. 5=5m

Products manufactured in
ISO 9001 certified facilities

E2000 FIBER OPTIC PATCH CORDS

Description



The E2000* connectors used are featured with spring-loaded shutters that open when engaged and close when disengaged protecting ferrules from dust and scratches. The connector's push-pull latching mechanism clicks when fully inserted.

In addition to basic testing, some mechanical and environmental tests per IEC or Telcordia are also performed periodically to guarantee the best quality. For standard patch cords, sampling check is performed on ferrule geometry to ensure high percentage of polished connectors meeting GR-326 requirements. For premium grade, ferrule geometry is tested on all patch cords to meet these requirements.

Other than standard single mode and multimode fibers, G655, OM2, and OM3 fibers are also available upon request. Flame retardant grade cable sheathing options are offered. Riser rated cable will be provided as standard. LSZH and Plenum can be provided upon request

*The E2000 connectors are manufactured under license of Diamond SA.

Features

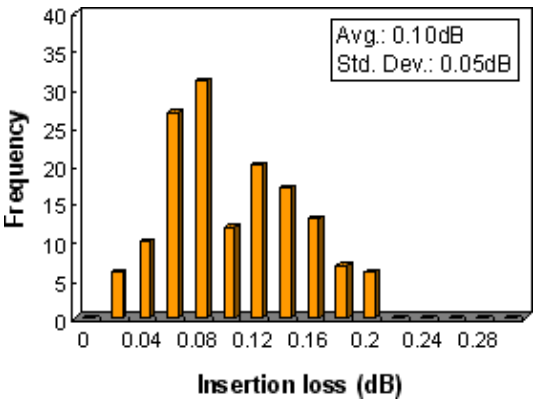
- Push-pull latching mechanism
- Protected by spring-loaded shutters
- Low insertion loss and high return loss
- Materials meet RoHS requirements
- Riser, Plenum, or LSZH cables

Applications

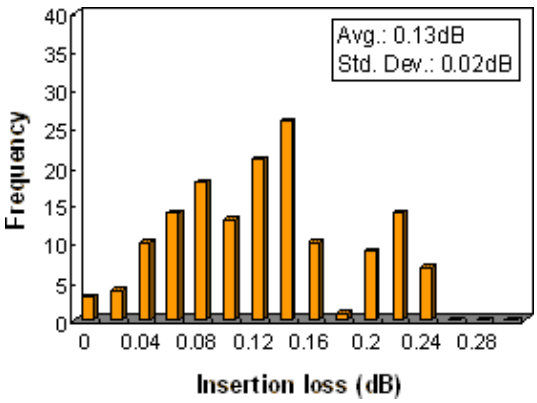
- Telecommunication
- Computer networks
- CATV networks
- Active device termination
- Instrumentation

Optical Performance Distribution

Insertion Loss, SM 9/125um PC



Insertion Loss, SM 9/125um APC



* Typical performance charts and actual data may vary from lot to lot.

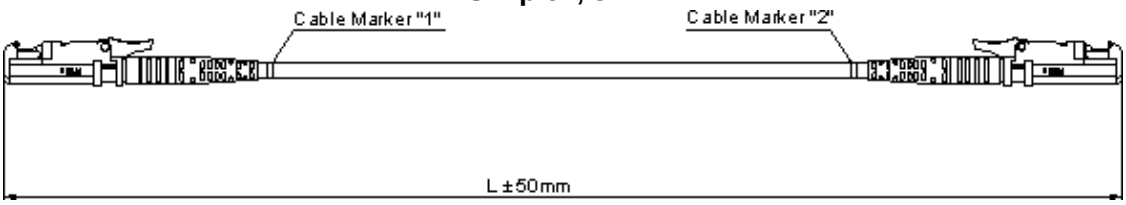
Specifications

Characteristics	Unit	Value/Performance			Comments
		SM		MM	
		PC	APC		
Basic					
Insertion Loss (IL)	dB	≤0.3			IEC 61300-3-4
Return Loss (RL)	dB	SPC≥45 UPC≥50	≥60	≥23	IEC 61300-3-6
Endurance	dB	ΔIL≤0.2			IEC 61300-2-2, coupling and uncoupling 500 cycles, clean every 25 cycles
Operating Temperature	°C	-20 ~ +70			
Storage Temperature	°C	-40 ~ +70			
Ferrule end-face geometry					
Radius of Curvature (R)	mm	7-25	5-12	NA	Telcordia GR326(4.4.5)
Apex Offset	um	≤50		NA	Telcordia GR325(4.4.5)
Fiber Protrusion	nm	≤50	≤100	NA	Telcordia GR326(4.4.5)
Fiber Under Cut	nm	≤125@ R=7-10	≤100	NA	Telcordia GR326(4.4.5). For PC, Under Cut ≤$-0.02R^3+1.3R^2-31R+325$ when R=10-25mm
Mechanical					
Drop	dB	ΔIL≤0.2			IEC 61300-2-12, 1.5m, 5 drops, no damage
Vibration	dB	ΔIL≤0.2			IEC 61300-2-1, 10-55Hz, 0.75mm amplitude, 0.5 hrs/axis
Flex	dB	ΔIL≤0.2			Telcordia GR326(4.4.3.2), 0.9kg, ±90°, 100cycles, for 2mm or larger cable
Twist	dB	ΔIL≤0.2			Telcordia GR326(4.4.3.3), 1.35kg load, ±2.5 turns, 10 cycles, for 2mm or larger cable
Pull Proof	dB	ΔIL≤0.2			Telcordia GR326(4.4.3.4), 3.4kg at 90°, 6.8kg at 0°, for 2mm or larger cable
Coupling strength	dB	ΔIL≤0.2			IEC 61300-2-6, 4.2kg, 2min
Static Bending	dB	ΔIL≤0.2			IEC 794-1-2, 60mm diameter 10 turns
Crushing	dB	ΔIL≤0.2			IEC 794-1-2, 102kg for 2mm or larger cable, 10.2kg for 900m cable
Environmental					
Cold	dB	ΔIL≤0.2			IEC 61300-2-17, -20°C, 96 hrs
Dry Heat	dB	ΔIL≤0.2			IEC 61300-2-18, 70°C, 96 hrs
Damp Heat	dB	ΔIL≤0.2			IEC 61300-2-19, 40°C, 95%RH, 96 hrs

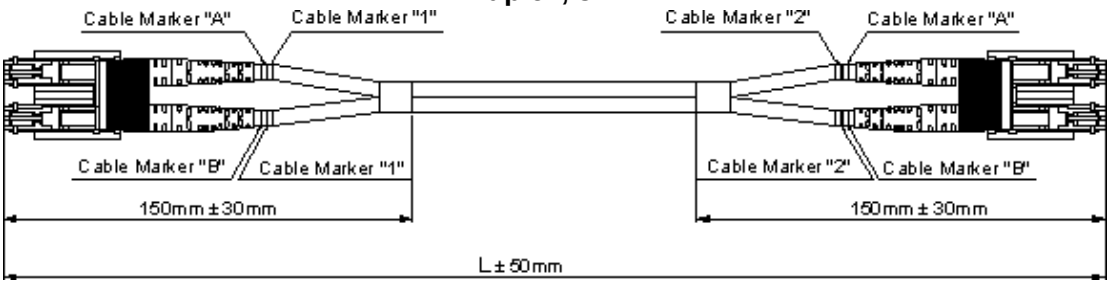
Transmission							
Characteristics	**Unit**	**G652 SM**	**G655 SM**	**Std. 50um**	**62.5um**	**OM2**	**OM3**
Max. Attenuation	dB/km (nm)	0.4/0.3 (1310/1550)	0.3 (1550)	2.8 (850)	3.0 (850)	2.8 (850)	2.8 (850)
Min. Bandwidth	MHz•km (nm)	-	-	500/500 (850/1300)	200/200 (850/1300)	750 (850)	2000 (850)
Dispersion Coefficient	ps/ nm^2•km	≤3.0 (1310nm)	2.6-6.0 (1550nm)	-	-	-	-

Dimensional Drawing

Simplex, 3mm



Duplex, 3mm



Ordering Information

Part Number: **PC- E2 A E2 U S R R 3.0- 6**

1 2 3 4 5 6 7 8 9

1	Connector #1	E2=E2000, S=SC, F=FC, T=ST, L=LC, DN=DIN, M=MU, MR=MTRJ, etc.
2	Finish 1 or Gender 1	S=SPC, U=UPC, A=APC, P=PC; for MTRJ, F=Female, M=Male
3	Connector #2	P=Pigtail (no connector at this end), E2=E2000, S=SC, F=FC, L=LC, etc.
4	Finish 2 or Gender 2	S=SPC, U=UPC, A=APC, P=PC; for MTRJ, F=Female, M=Male, T=Pigtail
5	Cable Type	S=Simplex, D=Duplex Straight, X=Duplex Reverse
6	Fiber	R=SM(G652), K=62.5um, C=50um, B=OM2, A=OM3, W=SM(G655)
7	Cable Jacket	R=Riser, P=Plenum, L=LSZH
8	Cable Diameter	3.0=Ø3.0mm, 2.0=Ø2.0mm, 0.9=Ø0.9mm, etc.
9	Cable Length	Length in meter, i.e. 6=6m

Products manufactured in
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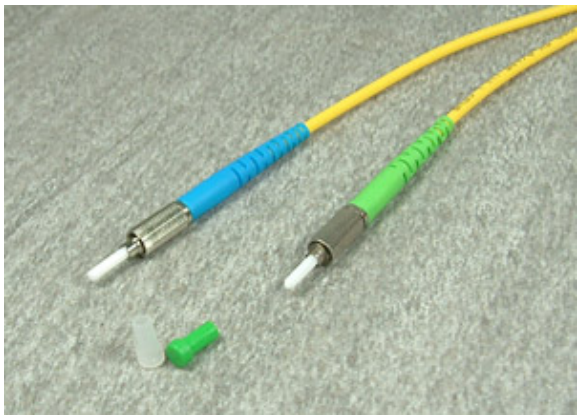
DIN FIBER OPTIC PATCH CORDS

Description



The DIN connectors used in our patch cords meet DIN 47256. They are compact and have spring-loaded free floating zirconia ferrules for superior performance.

In addition to basic testing, some mechanical and environmental tests per IEC or Telcordia are also performed periodically to guarantee the best quality. For standard patch cords, sampling check is performed on ferrule geometry to ensure high percentage of polished connectors meeting GR-326 requirements. For premium grade, ferrule geometry is tested on all patch cords to meet these GR-326 requirements.

Other than standard single mode and multimode fibers, G655, OM2, and OM3 fibers are also available upon request. Flame retardant grade cable sheathing options are offered. Riser rated cable will be provided as standard. LSZH and Plenum can be provided upon request.

Features

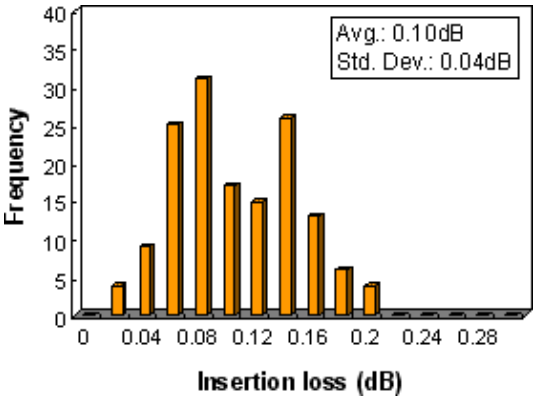
- Compatible with DIN 47256
- Compact design
- Low insertion loss and high return loss
- Materials meet RoHS requirements
- Riser, Plenum, and LSZH cables available

Applications

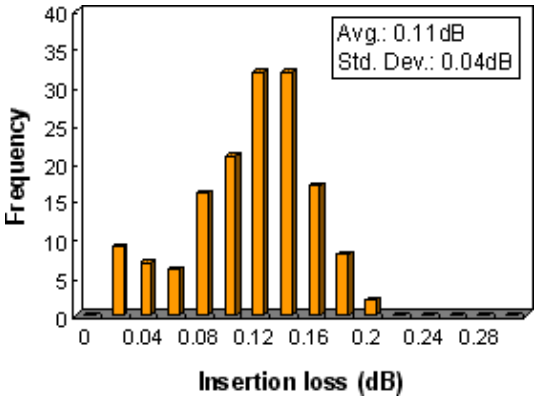
- Telecommunication
- Computer networks
- CATV networks
- Instrumentation

Optical Performance Distribution

Insertion Loss, SM 9/125um PC



Insertion Loss, SM 9/125um APC



* Typical performance charts and actual data may vary from lot to lot.

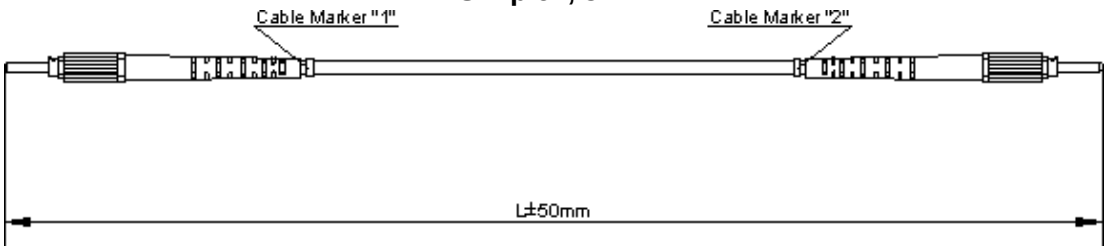
Specifications

Characteristics	Unit	Value/Performance			Comments
		SM		MM	
		PC	APC		
Basic					
Insertion Loss (IL)	dB	≤0.3			IEC 61300-3-4
Return Loss (RL)	dB	SPC≥45 UPC≥50	≥60	≥23	IEC 61300-3-6
Endurance	dB	ΔIL≤0.2			IEC 61300-2-2, coupling and uncoupling 500 cycles, clean every 25 cycles
Operating Temperature	°C	-20 ~ +70			
Storage Temperature	°C	-40 ~ +70			
Ferrule end-face geometry					
Radius of Curvature (R)	mm	7-25	5-12	NA	Telcordia GR326(4.4.5)
Apex Offset	um	≤50		NA	Telcordia GR325(4.4.5)
Fiber Protrusion	nm	≤50	≤100	NA	Telcordia GR326(4.4.5)
Fiber Under Cut	nm	≤125@ R=7-10	≤100	NA	Telcordia GR326(4.4.5). For PC, Under Cut ≤$-0.02R^3+1.3R^2-31R+325$ when R=10-25mm
Mechanical					
Drop	dB	ΔIL≤0.2			IEC 61300-2-12, 1.5m, 5 drops, no damage
Vibration	dB	ΔIL≤0.2			IEC 61300-2-1, 10-55Hz, 0.75mm amplitude, 0.5 hrs/axis
Flex	dB	ΔIL≤0.2			Telcordia GR326(4.4.3.2), 0.9kg, ±90°, 100cycles, for 2mm or larger cable
Twist	dB	ΔIL≤0.2			Telcordia GR326(4.4.3.3), 1.35kg load, ±2.5 turns, 10 cycles, for 2mm or larger cable
Pull Proof	dB	ΔIL≤0.2			Telcordia GR326(4.4.3.4), 3.4kg at 90°, 6.8kg at 0°, for 2mm or larger cable
Static Bending	dB	ΔIL≤0.2			IEC 794-1-2, 60mm diameter 10 turns
Crushing	dB	ΔIL≤0.2			IEC 794-1-2, 102kg for 2mm or larger cable, 10.2kg for 900m cable
Environmental					
Salt mist		No sign of corrosion			IEC 61300-2-26, 5% NaC1, 30°C, 7 days
Cold	dB	ΔIL≤0.2			IEC 61300-2-17, -20°C, 96 hrs
Dry Heat	dB	ΔIL≤0.2			IEC 61300-2-18, 70°C, 96 hrs
Damp Heat	dB	ΔIL≤0.2			IEC 61300-2-19, 40°C, 95%RH, 96 hrs

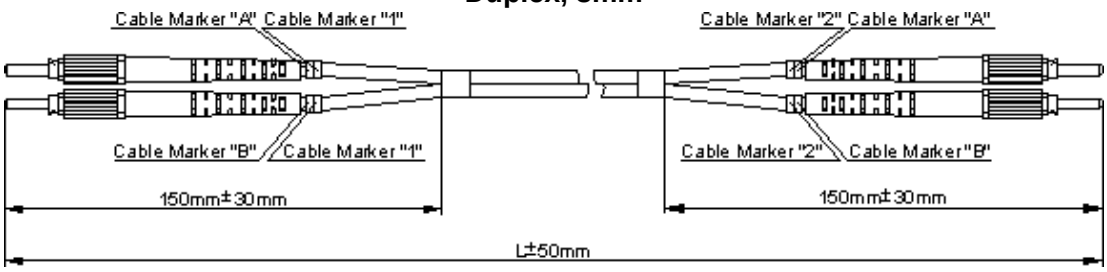
Transmission							
Characteristics	**Unit**	**G652 SM**	**G655 SM**	**Std. 50um**	**62.5um**	**OM2**	**OM3**
Max. Attenuation	dB/km (nm)	0.4/0.3 (1310/1550)	0.3 (1550)	2.8 (850)	3.0 (850)	2.8 (850)	2.8 (850)
Min. Bandwidth	MHz•km (nm)	-	-	500/500 (850/1300)	200/200 (850/1300)	750 (850)	2000 (850)
Dispersion Coefficient	ps/ nm^2•km	≤3.0 (1310nm)	2.6-6.0 (1550nm)	-	-	-	-

Dimensional Drawing

Simplex, 3mm



Duplex, 3mm



Ordering Information

Part Number: **PC-DN U DN U S R L 3.0- 5**

1 2 3 4 5 6 7 8 9

1	Connector #1	DN=DIN, F=FC, S=SC, T=ST, L=LC, E2=E2000, M=MU, MR=MTRJ, etc.
2	Finish 1 or Gender 1	S=SPC, U=UPC, A=APC, P=PC; for MTRJ, F=Female, M=Male
3	Connector #2	P=Pigtail (no connector at this end), DN=DIN, F=FC, S=SC, L=LC, etc.
4	Finish 2 or Gender 2	S=SPC, U=UPC, A=APC, P=PC; for MTRJ, F=Female, M=Male, T=Pigtail
5	Cable Type	S=Simplex, D=Duplex
6	Fiber	R=SM(G652), K=62.5um, C=50um, B=OM2, A=OM3, W=SM(G655)
7	Cable Jacket	R=Riser, P=Plenum, L=LSZH
8	Cable Diameter	3.0=Ø3.0mm, 2.0=Ø2.0mm, 0.9=Ø0.9mm, etc.
9	Cable Length	Length in meter, i.e. 5=5m

Products manufactured in
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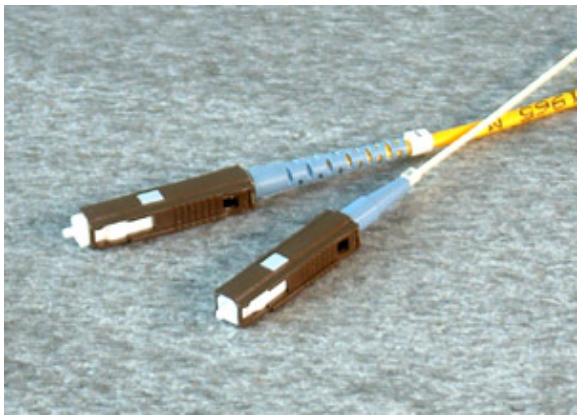
MU FIBER OPTIC PATCH CORDS

Description



MU connectors are half the size of SC connectors with push-pull function. The connectors are made of plastic housings and 1.25 mm zirconia ferrules. They are fully compatible with existing MU hardware.

In addition to basic testing, some mechanical and environmental tests per IEC or Telcordia are also performed periodically to guarantee the best quality. For standard patch cords, sampling check is performed on ferrule geometry to ensure high percentage of polished connectors meeting GR-326 requirements. For premium grade, ferrule geometry is tested on all patch cords to meet these GR-326 requirements.

Other than standard single mode and multimode fibers, G655, OM2, and OM3 fibers are also available upon request. Flame retardant grade cable sheathing options are offered. Riser rated cable will be provided as standard. LSZH and Plenum can be provided upon request.

Features

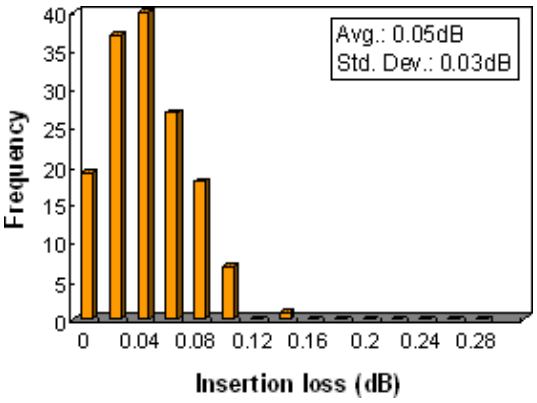
- Small size and light weight
- Push-pull operation
- High optical performance
- High quality zirconia ferrules
- Materials meet RoHS requirements
- Riser, Plenum, and LSZH cables available

Applications

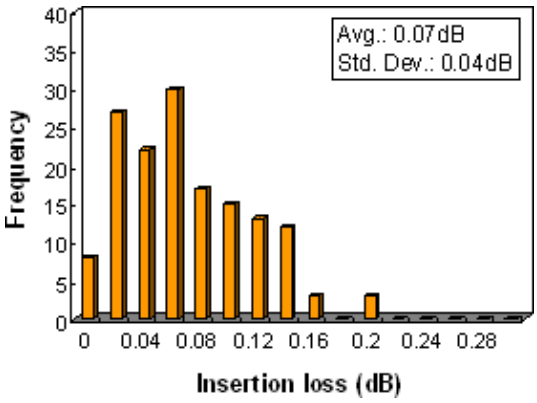
- Telecommunication
- Computer networks
- CATV networks
- Active device termination
- Instrumentation

Optical Performance Distribution

Insertion Loss, MM 62.5/125um



Insertion Loss, SM 9/125um PC



* Typical performance charts and actual data may vary from lot to lot.

Specifications

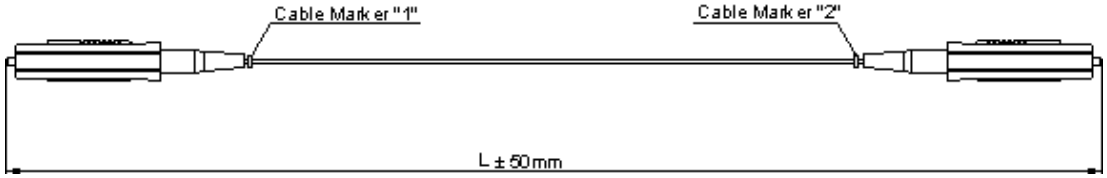
Characteristics	Unit	Value/Performance			Comments
		SM		MM	
		SPC	UPC		
Basic					
Insertion Loss (IL)	dB	≤0.3			IEC 61300-3-4
Return Loss (RL)	dB	≥45	≥50	≥23	IEC 61300-3-6
Endurance	dB	ΔIL≤0.2			IEC 61300-2-2, coupling and uncoupling 500 cycles, clean every 25 cycles
Operating Temperature	°C	-20 ~ +70			
Storage Temperature	°C	-40 ~ +70			
Ferrule end-face geometry					
Radius of Curvature (R)	mm	7-25		NA	Telcordia GR326(4.4.5)
Apex Offset	um	≤50		NA	Telcordia GR325(4.4.5)
Fiber Protrusion	nm	≤50		NA	Telcordia GR326(4.4.5)
Fiber Under Cut	nm	≤125 @R=7-10		NA	Telcordia GR326(4.4.5). For PC, Under Cut ≤$-0.02R^3+1.3R^2-31R+325$ when R=10-25mm
Mechanical					
Drop	dB	ΔIL≤0.2			IEC 61300-2-12, 1.5m, 5 drops, no damage
Vibration	dB	ΔIL≤0.2			IEC 61300-2-1, 10-55Hz, 0.75mm amplitude, 0.5 hrs/axis
Flex	dB	ΔIL≤0.2			Telcordia GR326(4.4.3.2), 0.6kg, ±90°, 100cycles, for 2mm or larger cable
Twist	dB	ΔIL≤0.2			Telcordia GR326(4.4.3.3), 1.35kg load, ±2.5 turns, 10 cycles, for 2mm or larger cable
Pull Proof	dB	ΔIL≤0.2			Telcordia GR326(4.4.3.4), 2.3kg at 90°, 6.8kg at 0°, for 2mm or larger cable
Coupling strength	dB	ΔIL≤0.2			IEC 61300-2-6, 4.2kg, 2min
Static Bending	dB	ΔIL≤0.2			IEC 794-1-2, 60mm diameter 10 turns
Crushing	dB	ΔIL≤0.2			IEC 794-1-2, 102kg for 2mm or larger cable, 10.2kg for 900m cable
Environmental					
Cold	dB	ΔIL≤0.2			IEC 61300-2-17, -20°C, 96 hrs
Dry Heat	dB	ΔIL≤0.2			IEC 61300-2-18, 70°C, 96 hrs
Damp Heat	dB	ΔIL≤0.2			IEC 61300-2-19, 40°C, 95%RH, 96 hrs

Transmission

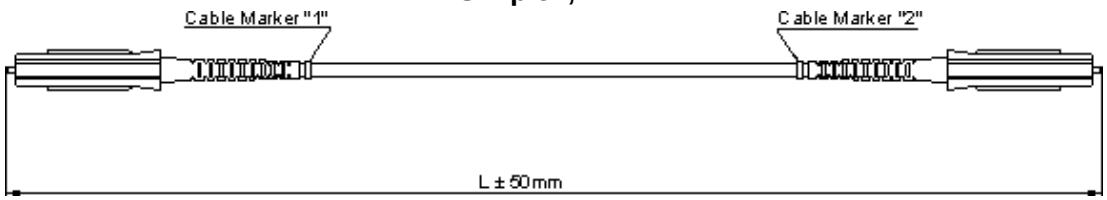
Characteristics	Unit	G652 SM	G655 SM	Std. 50um	62.5um	OM2	OM3
Max. Attenuation	dB/km (nm)	0.4/0.3 (1310/1550)	0.3 (1550)	2.8 (850)	3.0 (850)	2.8 (850)	2.8 (850)
Min. Bandwidth	MHz•km (nm)	-	-	500/500 (850/1300)	200/200 (850/1300)	750 (850)	2000 (850)
Dispersion Coefficient	ps/ nm^2•km	≤3.0 (1310nm)	2.6-6.0 (1550nm)	-	-	-	-

Dimensional Drawing

Simplex, 900um



Simplex, 2mm



Ordering Information

Part Number: **PC- M U M U S R P 2.0- 3**
1 2 3 4 5 6 7 8 9

1	Connector #1	M=MU, L=LC, S=SC, T=ST, F=FC, E2=E2000, DN=DIN, MR=MTRJ, etc.
2	Finish 1 or Gender 1	S=SPC, U=UPC, A=APC, P=PC; for MTRJ, F=Female, M=Male
3	Connector #2	P=Pigtail (no connector at this end), M=MU, L=LC, S=SC, F=FC, etc.
4	Finish 2 or Gender 2	S=SPC, U=UPC, A=APC, P=PC; for MTRJ, F=Female, M=Male, T=Pigtail
5	Cable Type	S=Simplex, D=Duplex Straight
6	Fiber	R=SM(G652), K=62.5um, C=50um, B=OM2, A=OM3, W=SM(G655)
7	Cable Jacket	R=Riser, P=Plenum, L=LSZH
8	Cable Diameter	2.0=Ø2.0mm, 0.9=Ø0.9mm, etc.
9	Cable Length	Length in meter, i.e. 3=3m

Products manufactured in
ISO 9001 certified facilities

MTRJ FIBER OPTIC PATCH CORDS

Description

Pacific Interconnections' MTRJ patch cords are designed to meet EIA/TIA 568B.3 and EIA/TIA 604 standards. These products offer excellent performance with high repeatability and low levels of insertion loss. They are fully intermatable with standard MTRJ products and provide long term stability under a wide range of conditions.

MTRJ connectors are low cost and small form factor connectors with RJ-45 latching mechanism making them ideal for fiber-to the-desk applications. The connectors are made with plastic housings and composite ferrules meeting demands for cost effectiveness. Their duplex ferrules and push-pull mechanism ensure easy connectivity.

Other than standard single mode and multimode fibers, OM2, and OM3 fibers are also available upon request. Flame retardant grade cable sheathing options are offered. Riser rated cable will be provided as standard. LSZH and Plenum can be provided upon request.

Features

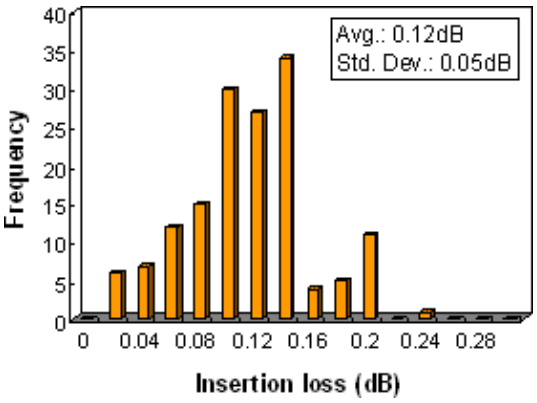
- RJ-45 form factor
- Duplex ferrule
- Increases density by 50%
- Low cost
- Materials meet RoHS requirements
- Riser, Plenum, and LSZH cables available

Applications

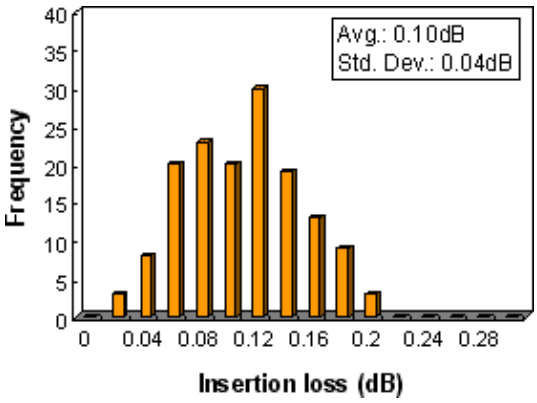
- Local Area Networks
- Fast Ethernet
- Fiber Channel
- ATM Networks
- Network cross-connect
- Fiber-to-the-desk

Optical Performance Distribution

Insertion Loss, MM 62.5/125um



Insertion Loss, SM 9/125um



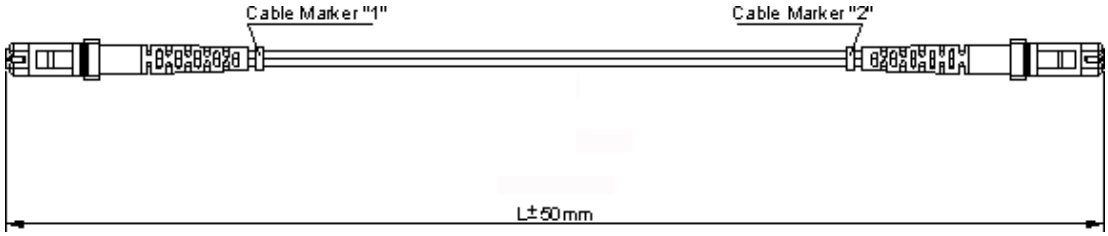
* Typical performance charts and actual data may vary from lot to lot.

Specifications

Characteristics	Unit	Value/Performance		Comments
		SM	MM	
Basic				
Insertion Loss (IL)	dB	≤0.5		
Return Loss (RL)	dB	≥35	≥20	
Endurance	dB	ΔIL≤0.2		Coupling and uncoupling 500 cycles, clean every 25 cycles
Exchangeability	dB	ΔIL≤0.2		Randomly
Operating Temperature	°C	-10 ~ +60		
Storage Temperature	°C	-40 ~ +70		
Mechanical				
Impact	dB	ΔIL≤0.2		1.5m, 5 drops, no damage
Vibration	dB	ΔIL≤0.2		10-55Hz, 0.75mm amplitude, 0.5 hrs/axis
Flex	dB	ΔIL≤0.2		0.9kg, ±90°, 100cycles for jacketed cable
Twist	dB	ΔIL≤0.2		1.5kg load, ±180 degrees, 10 cycles for jacketed cable
Pull Proof	dB	ΔIL≤0.2		6.8kg at 0° for jacketed cable
Environmental				
Cold	dB	ΔIL≤0.2		-10°C, 96 hrs
Dry Heat	dB	ΔIL≤0.2		+60°C, 96 hrs
Damp Heat	dB	ΔIL≤0.2		+40°C, 95%RH, 96 hrs
Transmission				

Characteristics	Unit	G652 SM	Std. 50um	62.5um	OM2	OM3
Max. Attenuation	dB/km (nm)	0.4/0.3 (1310/1550)	2.8 (850)	3.0 (850)	2.8 (850)	2.8 (850)
Min. Bandwidth	MHz•km (nm)	-	500/500 (850/1300)	200/200 (850/1300)	750 (850)	2000 (850)
Dispersion Coefficient	ps/ nm^2•km	≤3.0 (1310nm)	-	-	-	-

Dimensional Drawing



Ordering Information

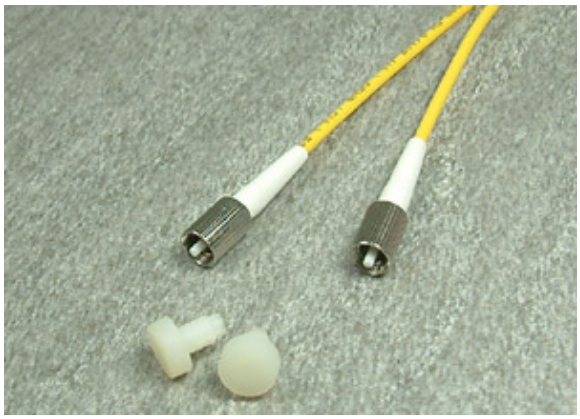
Part Number: **PC-MR M T P D K R 2.0- 5**
1 2 3 4 5 6 7 8 9

1	Connector #1	MR=MTRJ, S=SC, F=FC, T=ST, L=LC, etc.
2	Gender 1 or Finish 1	F=Female, M=Male; for others, S=SPC, U=UPC, A=APC, P=PC
3	Connector #2	P=Pigtail (no connector at this end), MR=MTRJ, S=SC, T=ST, L=LC, etc.
4	Gender 2 or Finish 2	F=Female, M=Male; for others, S=SPC, U=UPC, A=APC, P=PC, T=Pigtail
5	Cable Type	D=Duplex Straight, X=Duplex Reverse
6	Fiber	R=SM(G652), K=62.5um, C=50um, B=OM2, A=OM3
7	Cable Jacket	R=Riser, P=Plenum, L=LSZH
8	Cable Diameter	2.0=Ø2.0mm, etc.
9	Cable Length	Length in meter, i.e. 5=5m

Products manufactured in
ISO 9001 certified facilities

D4 FIBER OPTIC PATCH CORDS

Description



The D4 connectors used in our patch cords belong to an older generation of connectors that are keyed and spring-loaded. The zirconia ferrules are 2mm in diameter and fully compatible with existing D4 hardware.

In addition to basic testing, some mechanical and environmental tests per IEC or Telcordia are also performed periodically to guarantee the best quality.

Other than standard single mode and multimode fibers, G655, OM2, and OM3 fibers are also available upon request. Flame retardant grade cable sheathing options are offered. Riser rated cable will be provided as standard. LSZH and Plenum can be provided upon request.

Features

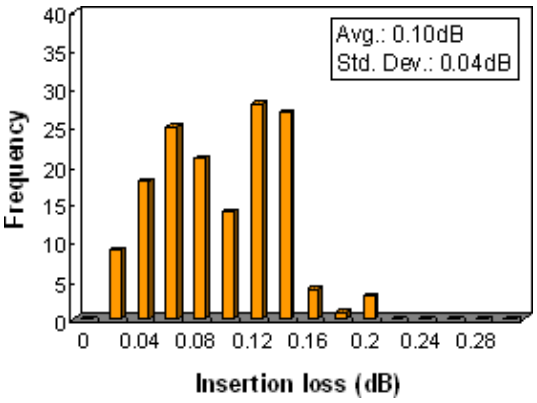
- Non-optical disconnect performance
- 2mm zirconia ferrules diameter
- Low insertion loss and high return loss
- Materials meet RoHS requirements
- Riser, Plenum, and LSZH cables available

Applications

- Telecommunication
- Computer networks
- Instrumentation

Optical Performance Distribution

Insertion Loss, SM 9/125um PC



* Typical performance chart and actual data may vary from lot to lot.

Specifications

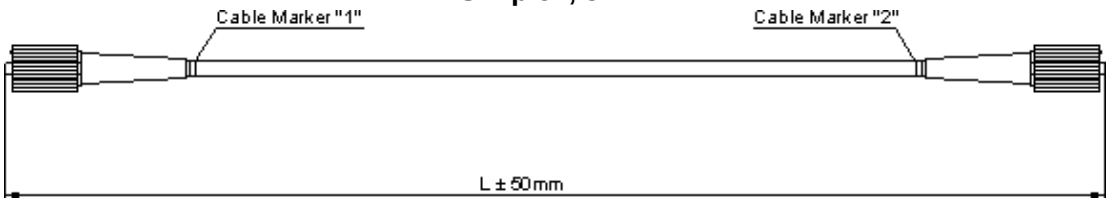
Characteristics	Unit	Value/Performance			Comments
		SM		MM	
		SPC	UPC		
Basic					
Insertion Loss (IL)	dB	≤0.3			IEC 61300-3-4
Return Loss (RL)	dB	≥45	≥50	≥23	IEC 61300-3-6
Endurance	dB	ΔIL≤0.2			IEC 61300-2-2, coupling and uncoupling 500 cycles, clean every 25 cycles
Operating Temperature	°C	-20 ~ +70			
Storage Temperature	°C	-40 ~ +70			
Mechanical					
Drop	dB	ΔIL≤0.2			IEC 61300-2-12, 1.5m, 5 drops, no damage
Vibration	dB	ΔIL≤0.2			IEC 61300-2-1, 10-55Hz, 0.75mm amplitude, 0.5 hrs/axis
Flex	dB	ΔIL≤0.2			Telcordia GR326(4.4.3.2), 0.9kg, ±90°, 100cycles, for 2mm or larger cable
Twist	dB	ΔIL≤0.2			Telcordia GR326(4.4.3.3), 1.35kg load, ±2.5 turns, 10 cycles, for 2mm or larger cable
Pull Proof	dB	ΔIL≤0.2			Telcordia GR326(4.4.3.4), 3.4kg at 90°, 6.8kg at 0°, for 2mm or larger cable
Static Bending	dB	ΔIL≤0.2			IEC 794-1-2, 60mm diameter 10 turns
Crushing	dB	ΔIL≤0.2			IEC 794-1-2, 102kg for 2mm or larger cable, 10.2kg for 900m cable
Environmental					
Salt mist		No sign of corrosion			IEC 61300-2-26, 5% NaC1, 30°C, 7 days
Cold	dB	ΔIL≤0.2			IEC 61300-2-17, -20°C, 96 hrs
Dry Heat	dB	ΔIL≤0.2			IEC 61300-2-18, 70°C, 96 hrs
Damp Heat	dB	ΔIL≤0.2			IEC 61300-2-19, 40°C, 95%RH, 96 hrs

Transmission

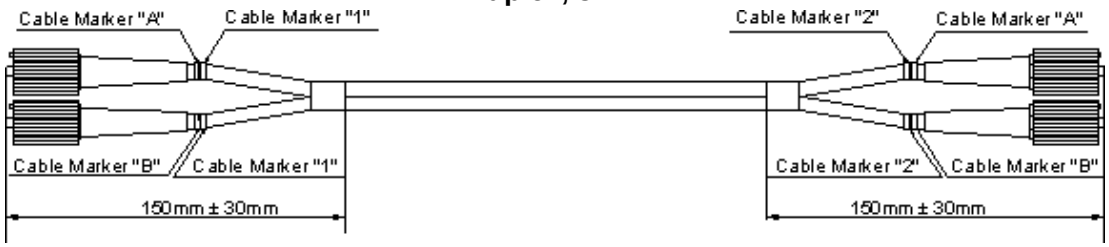
Characteristics	Unit	G652 SM	G655 SM	Std. 50um	62.5um	OM2	OM3
Max. Attenuation	dB/km (nm)	0.4/0.3 (1310/1550)	0.3 (1550)	2.8 (850)	3.0 (850)	2.8 (850)	2.8 (850)
Min. Bandwidth	MHz•km (nm)	-	-	500/500 (850/1300)	200/200 (850/1300)	750 (850)	2000 (850)
Dispersion Coefficient	ps/ nm^2•km	≤3.0 (1310nm)	2.6-6.0 (1550nm)	-	-	-	-

Dimensional Drawing

Simplex, 3mm



Duplex, 3mm



Ordering Information

Part Number: **PC-D4 S D4 S S R L 3.0- 5**

1 2 3 4 5 6 7 8 9

1	Connector #1	D4=D4, F=FC, S=SC, T=ST, L=LC, E2=E2000, DN=DIN, MR=MTRJ, etc.
2	Finish 1 or Gender 1	S=SPC, U=UPC, A=APC, P=PC; for MTRJ, F=Female, M=Male
3	Connector #2	P=Pigtail (no connector at this end), D4=D4, F=FC, S=SC, T=ST, etc.
4	Finish 2 or Gender 2	S=SPC, U=UPC, A=APC, P=PC; for MTRJ, F=Female, M=Male, T=Pigtail
5	Cable Type	S=Simplex, D=Duplex
6	Fiber	R=SM(G652), K=62.5um, C=50um, B=OM2, A=OM3, W=SM(G655)
7	Cable Jacket	R=Riser, P=Plenum, L=LSZH
8	Cable Diameter	3.0=Ø3.0mm, 2.0=Ø2.0mm, 0.9=Ø0.9mm, etc.
9	Cable Length	Length in meter, i.e. 5=5m

Products manufactured in
ISO 9001 certified facilities

ESCON FIBER OPTIC PATCH CORDS

Description

The ESCON* architecture was developed to improve connectivity between mainframe, its peripherals, and other networks. The connector system is a retractable shroud duplex meeting IBM* requirements.

In addition to basic testing, some mechanical and environmental tests per IEC or Telcordia are also performed periodically to guarantee the best quality. For standard patch cords, sampling check is performed on ferrule geometry to ensure high percentage of polished connectors meeting GR-326 requirements. For premium grade, ferrule geometry is tested on all patch cords to meet these GR-326 requirements.

Other than standard single mode and multimode fibers, OM2, and OM3 fibers are also available upon request. Flame retardant grade cable sheathing options are offered. Riser rated cable will be provided as standard. LSZH and Plenum can be provided upon request

*ESCON and IBM are trademarks of International Business Machines Corp.

Features

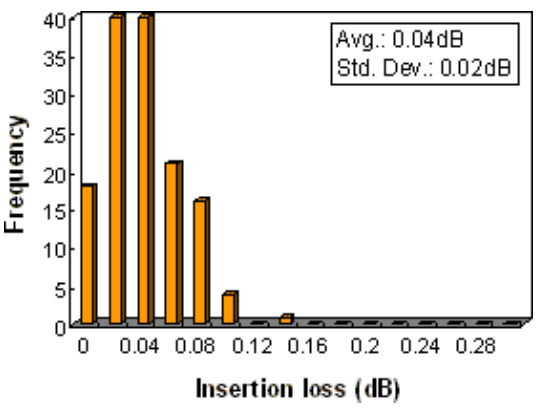
- Push-pull latching mechanism
- Polarized housing with retractable shroud
- Compatible with IBM ESCON architecture
- Materials meet RoHS requirements
- Riser, Plenum, and LSZH cables available

Applications

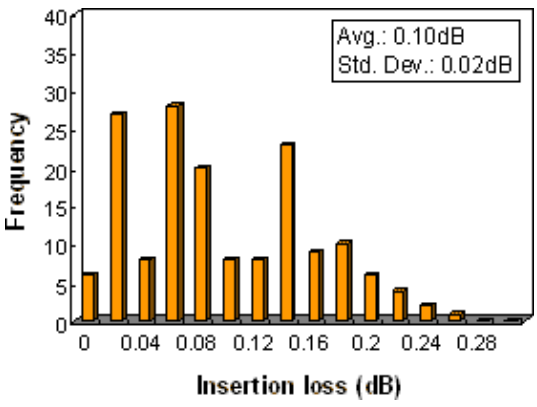
- IBM networks
- Peripheral control
- Storage devices
- Workstations

Optical Performance Distribution

Insertion Loss, MM 62.5/125um



Insertion Loss, SM 9/125um PC



* Typical performance chart and actual data may vary from lot to lot.

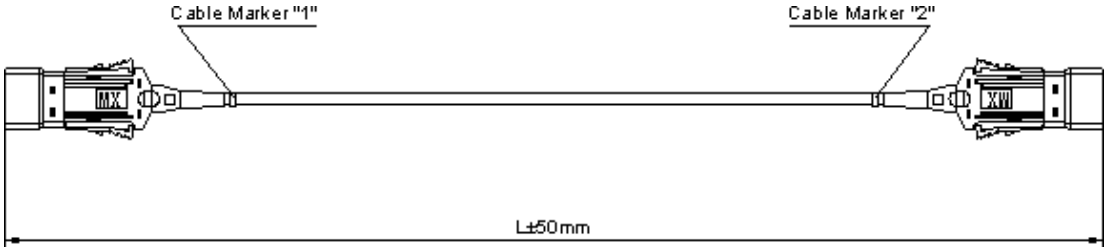
Specifications

Characteristics	Unit	Value/Performance			Comments
		SM		MM	
		SPC	UPC		
Basic					
Insertion Loss (IL)	dB	≤0.3			IEC 61300-3-4
Return Loss (RL)	dB	≥45	≥50	≥23	IEC 61300-3-6
Endurance	dB	ΔIL≤0.2			IEC 61300-2-2, coupling and uncoupling 500 cycles, clean every 25 cycles
Operating Temperature	°C	-20 ~ +70			
Storage Temperature	°C	-40 ~ +70			
Ferrule end-face geometry					
Radius of Curvature (R)	mm	7-25		NA	Telcordia GR326(4.4.5)
Apex Offset	um	≤50		NA	Telcordia GR325(4.4.5)
Fiber Protrusion	nm	≤50		NA	Telcordia GR326(4.4.5)
Fiber Under Cut	nm	≤125 @R=7-10		NA	Telcordia GR326(4.4.5). For PC, Under Cut ≤$-0.02R^3+1.3R^2-31R+325$ when R=10-25mm
Mechanical					
Drop	dB	ΔIL≤0.2			IEC 61300-2-12, 1.5m, 5 drops, no damage
Vibration	dB	ΔIL≤0.2			IEC 61300-2-1, 10-55Hz, 0.75mm amplitude, 0.5 hrs/axis
Flex	dB	ΔIL≤0.2			Telcordia GR326(4.4.3.2), 0.9kg, ±90°, 100cycles, for 2mm or larger cable
Twist	dB	ΔIL≤0.2			Telcordia GR326(4.4.3.3), 1.35kg load, ±2.5 turns, 10 cycles, for 2mm or larger cable
Pull Proof	dB	ΔIL≤0.2			Telcordia GR326(4.4.3.4), 3.4kg at 90°, 6.8kg at 0°, for 2mm or larger cable
Coupling strength	dB	ΔIL≤0.2			IEC 61300-2-6, 4.2kg, 2min
Static Bending	dB	ΔIL≤0.2			IEC 794-1-2, 60mm diameter 10 turns
Crushing	dB	ΔIL≤0.2			IEC 794-1-2, 102kg for 2mm or larger cable, 10.2kg for 900m cable
Environmental					
Cold	dB	ΔIL≤0.2			IEC 61300-2-17, -20°C, 96 hrs
Dry Heat	dB	ΔIL≤0.2			IEC 61300-2-18, 70°C, 96 hrs
Damp Heat	dB	ΔIL≤0.2			IEC 61300-2-19, 40°C, 95%RH, 96 hrs
Transmission					

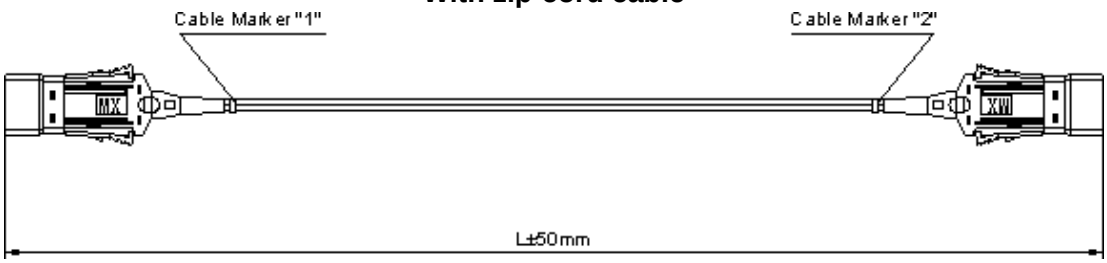
Characteristics	Unit	G652 SM	Std. 50um	62.5um	OM2	OM3
Max. Attenuation	dB/km (nm)	0.4/0.3 (1310/1550)	2.8 (850)	3.0 (850)	2.8 (850)	2.8 (850)
Min. Bandwidth	MHz•km (nm)	-	500/500 (850/1300)	200/200 (850/1300)	750 (850)	2000 (850)
Dispersion Coefficient	ps/ nm^2•km	≤3.0 (1310nm)	-	-	-	-

Dimensional Drawing

With round distribution cable



With zip-cord cable



Ordering Information

Part Number: **PC-ESC P ESC P X K R 4.8- 6**

1 2 3 4 5 6 7 8 9

1	Connector #1	ESC=ESCON, S=SC, F=FC, T=ST, L=LC, MR=MTRJ, etc.
2	Finish 1 or Gender 1	S=SPC, U=UPC, A=APC, P=PC; for MTRJ, F=Female, M=Male
3	Connector #2	P=Pigtail (no connector at this end), ESC=ESCON, T=ST, MR=MTRJ, etc.
4	Finish 2 or Gender 2	S=SPC, U=UPC, A=APC, P=PC; for MTRJ, F=Female, M=Male, T=Pigtail
5	Cable Type	D=Duplex Straight, X=Duplex Reverse
6	Fiber	R=SM(G652), K=62.5um, C=50um, B=OM2, A=OM3
7	Cable Jacket	R=Riser, P=Plenum, L=LSZH
8	Cable Diameter	4.8=Ø4.8mm, 3.0=Ø3.0mm, etc.
9	Cable Length	Length in meter, i.e. 6=6m

Products manufactured in
ISO 9001 certified facilities

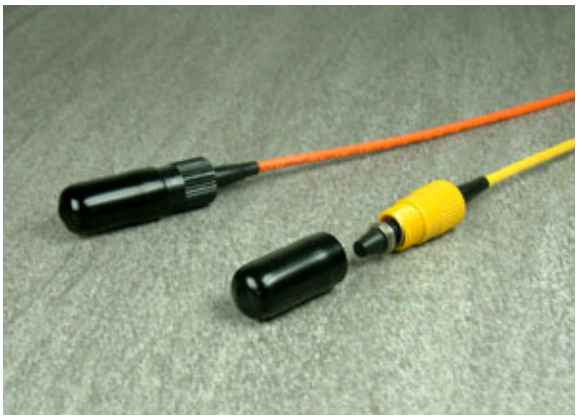
BICONIC FIBER OPTIC PATCH CORDS

BICONIC FIBER OPTIC PATCH CORDS

Description

The BICONIC connectors used on our patch cords consist of cone-shaped polymer ferrules that help to align the fibers in connection interfaces. The ferrules incorporate the latest in precision molding technique to yield fractional dB loss. Their rugged design allows the BICONIC connectors to be used in military applications.

Flame retardant grade cable sheathing options are offered. Riser rated cables will be provided as standard. LSZH and Plenum can be provided upon request.



Features

- Dual conical surfaces
- High quality Polymer ferrules
- Precision molding
- Riser, Plenum, and LSZH cables available

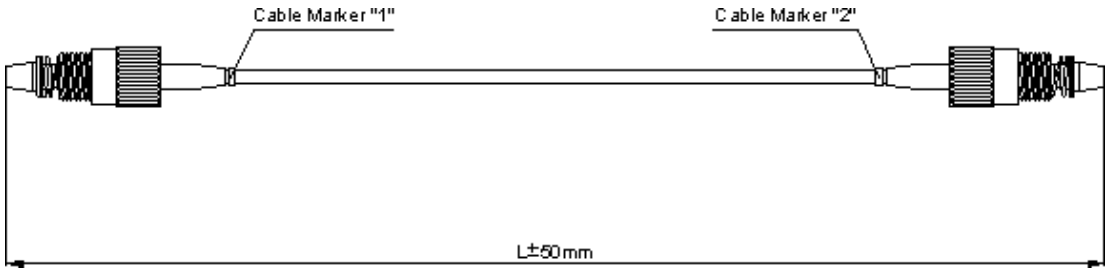
Applications

- LANs
- Data processing systems
- Medical instrument
- Remote sensing

Specifications

Characteristics	Unit	Value / Performance		
		SM	MM 50um	MM 62.5um
Basic				
Insertion Loss (IL)	dB	≤1		
Return Loss (RL)	dB	≥35	≥20	
Endurance (500 remates)	dB	ΔIL≤0.5		
Operating Temperature	°C	-10 ~ +60		
Storage Temperature	°C	-40 ~ +70		
Axial Pull for jacketed cable	N	100		
Transmission				
Max. Attenuation	dB/km (nm)	0.4/0.3 (1310/1550)	2.8 (850)	3.0 (850)
Min. Bandwidth	MHz•km (nm)	-	500/500 (850/1300)	200/200 (850/1300)
Dispersion Coefficient	ps/ nm^2•km	≤3.0 (1310nm)	-	-

Dimensional Drawing



Ordering Information

Part Number: **PC-BC P BC P S K R 3.0- 6**
1 2 3 4 5 6 7 8 9

1	Connector #1	BC=BICONIC, S=SC, F=FC, T=ST, L=LC, E2=E2000, DN=DIN, M=MU, MR=MTRJ, etc.
2	Finish 1	S=SPC, U=UPC, A=APC, P=PC
3	Connector #2	P=Pigtail (no connector at this end), BC=BICONIC, S=SC, F=FC, T=ST, etc.
4	Finish 2	S=SPC, U=UPC, A=APC, P=PC, T=Pigtail
5	Cable Type	S=Simplex, D=Duplex Straight, X=Duplex Reverse
6	Fiber	R=SM(G652), K=62.5um, C=50um, B=OM2, A=OM3, W=SM(G655)
7	Cable Jacket	R=Riser, P=Plenum, L=LSZH
8	Cable Diameter	3.0=Ø3.0mm, 2.0=Ø2.0mm, 0.9=Ø0.9mm, etc.
9	Cable Length	Length in meter, i.e. 6=6m

Products manufactured in
ISO 9001 certified facilities