

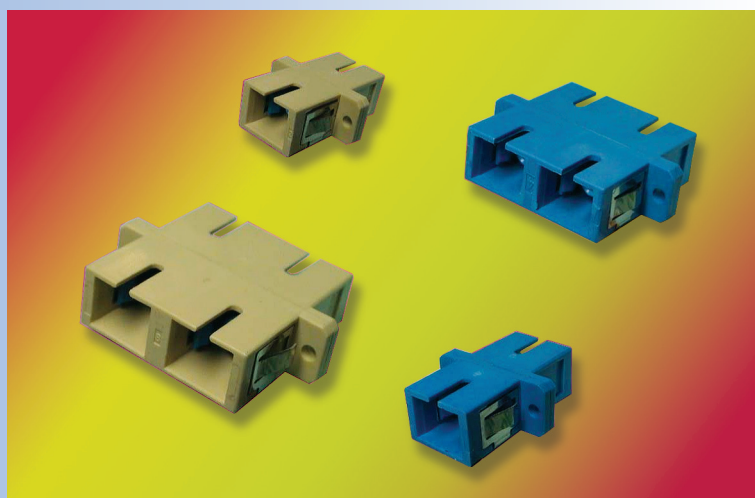
P-AD ADAPTORS

Features:

- Low insertion loss
- Low back reflection loss
- Easy to handle
- Environmentally stable

Applications:

- Telecommunications
- Local area network
- Fiber to the home
- Fiber optic sensors
- Testing instruments
- CATV



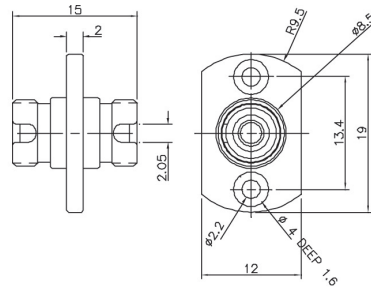
Performance Specifications:

ITEM	Adaptors	
	Ceramic	Bronze
Sleeve Material	Ceramic	Bronze
Typical Insertion Loss, dB	0.1	0.3
Maximum Insertion Loss, dB	0.3	0.5
Operating Temperature, °C	-40 ~ +75	
Storage Temperature, °C	-55 ~ +85	

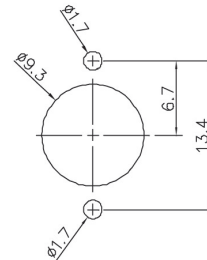
ADAPTORS

Mechanical Drawings:

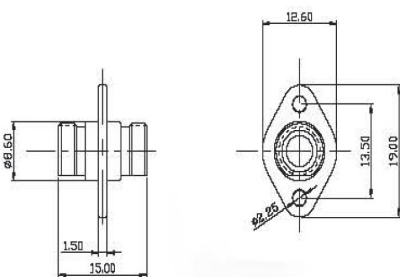
Unit: mm



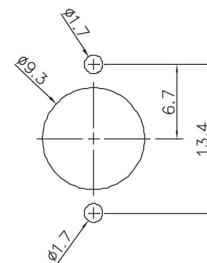
P-AD-AP-□-AP(standard type)



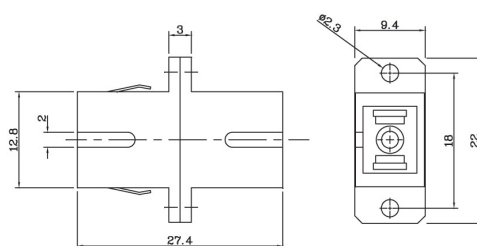
Recommended Panel Cutout



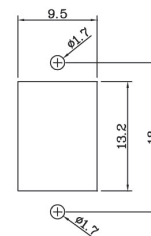
P-AD-AP-□-AP(lozenge shape)



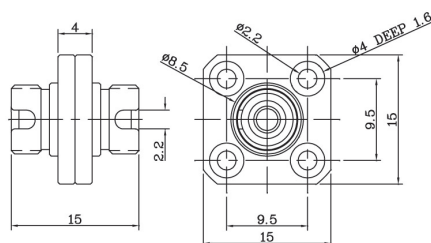
Recommended Panel Cutout



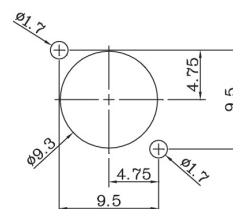
P-AD-AS-□-AS



Recommended Panel Cutout



P-AD-FC-□-FC

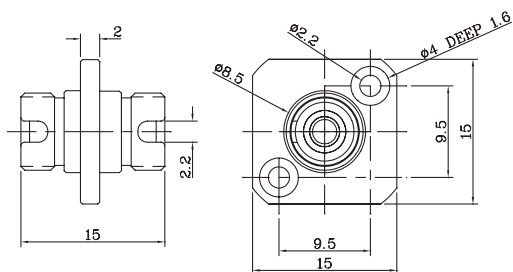


Recommended Panel Cutout

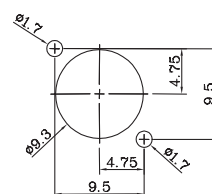
ADAPTORS

Mechanical Drawings:

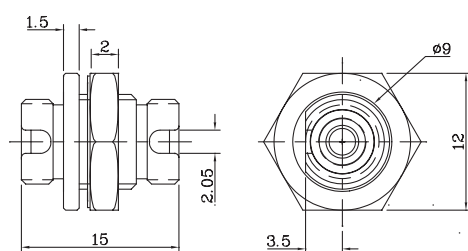
Unit: mm



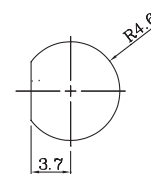
P-AD-FA- □ -FA



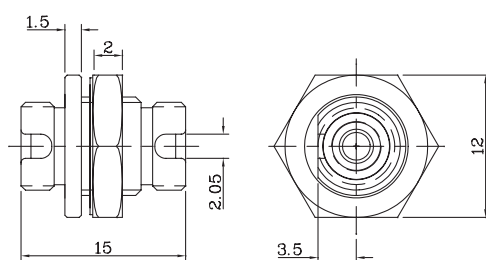
Recommended Panel Cutout



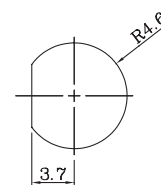
P-AD-DA- □ -DA



Recommended Panel Cutout



P-AD-DF- □ -DF

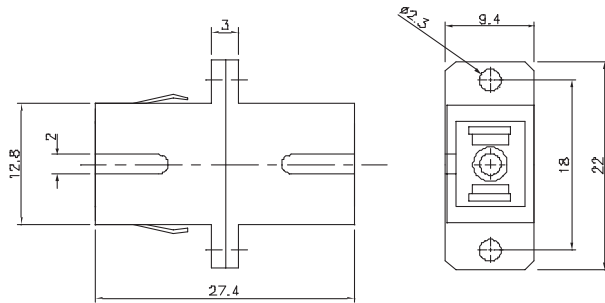


Recommended Panel Cutout

ADAPTORS

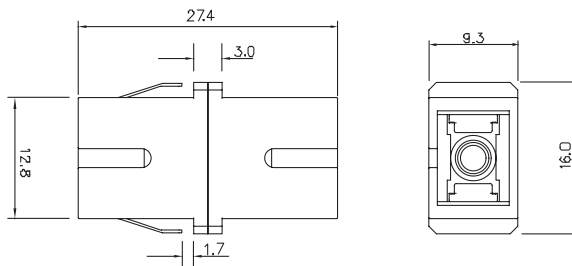
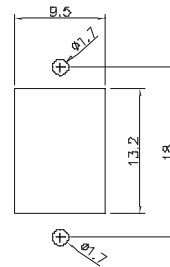
Mechanical Drawings:

Unit: mm



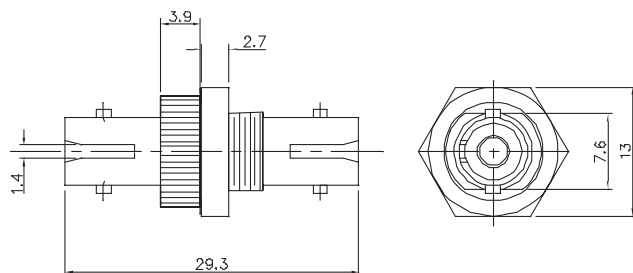
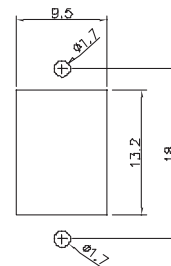
P-AD-SC- □ -SC (standard type)
P-AD-AS- □ -AS (standard type)

Recommended Panel Cutout



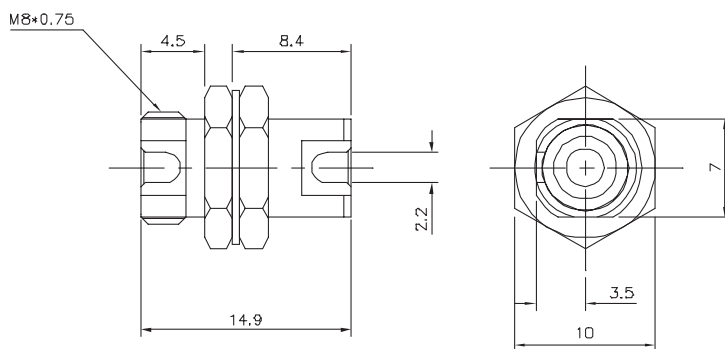
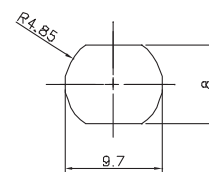
P-AD-SS- □ -SS (short flange type)
P-AD-S1- □ -S1 (short flange type)

Recommended Panel Cutout



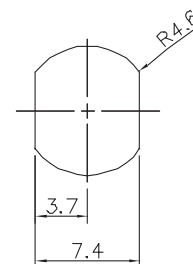
P-AD-ST- □ -ST

Recommended Panel Cutout



P-AD-MD- □ -MD

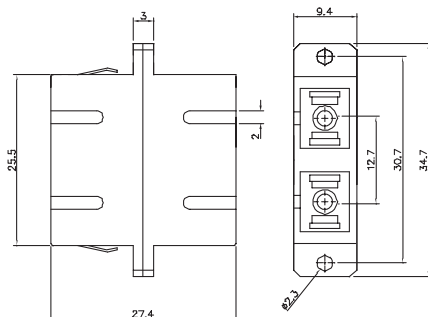
Recommended Panel Cutout



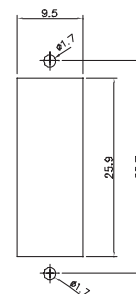
ADAPTORS

Mechanical Drawings:

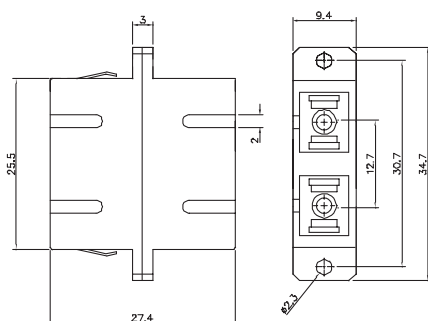
Unit: mm



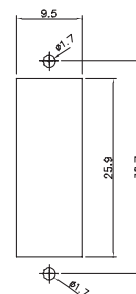
P-AD-DC-□-DC



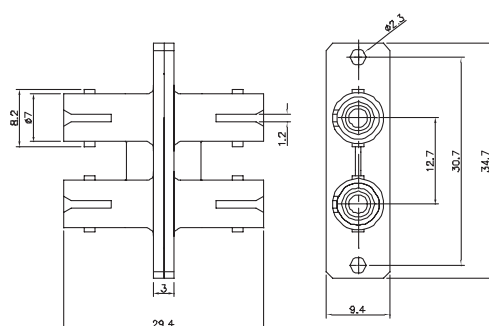
Recommended Panel Cutout



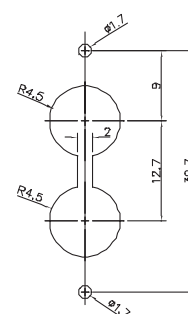
P-AD-DS □-DS



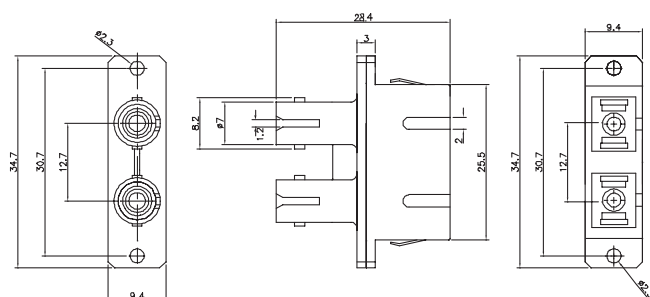
Recommended Panel Cutout



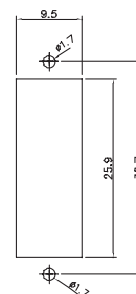
P-AD-DT-□-DT



Recommended Panel Cutout



P-AD-DS □-DT

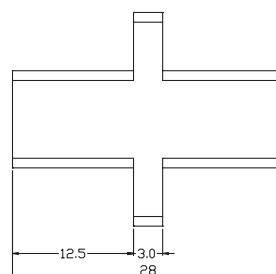
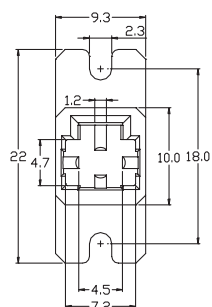


Recommended Panel Cutout

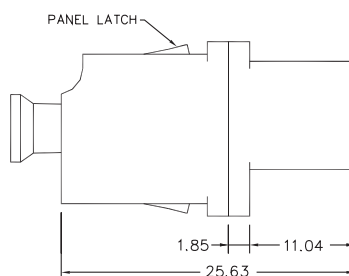
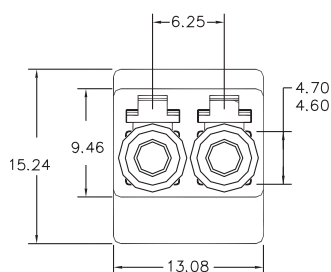
ADAPTORS

Mechanical Drawings:

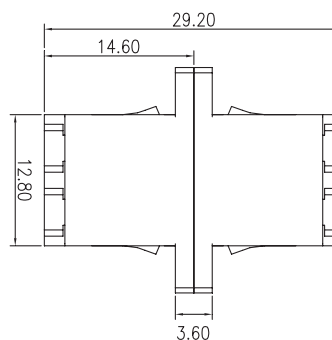
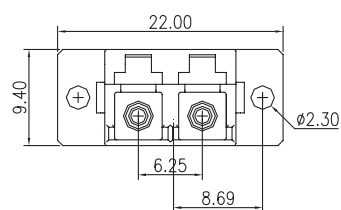
Unit: mm



P-AD-MR-□-MR



P-AD-DL-□-DL



P-AD-DL-□-DL (SC type)

ADAPTORS

Ordering Information:

P - AD - - -

Connector Type

AP	FC/APC type
AS	SC/APC standard type
S 1	SC/APC short flange type
FC	FC type
FA	Die-cast FC type
DA	D-hole FC/APC type
DF	D-hole FC type
MD	Miniature Double D-hole FC type
SC	SC standard type (*)
SS	SC short flange type (*)
ST	ST type
DC	SC/APC Duplex type
DS	SC duplex type (*)
DT	ST duplex type
LC	LC simplex type (*)
AL	LC/APC simplex type
DL	LC duplex type (*)
GL	LC/APC duplex type
MU	MU simplex type
MP	MPO type
MR	MTRJ type
XX	Others, please specify

Sleeve Material

B	Bronze
C	Ceramic
N	MT-RJ/MPO

Connector Type

AP	FC/APC type
AS	SC/APC standard type
S 1	SC/APC short flange type
FC	FC type
FA	Die-cast FC type
DA	D-hole FC/APC type
DF	D-hole FC type
MD	Miniature Double D-hole FC type
SC	SC type (*)
SS	SC short flange type (*)
ST	ST type
DC	SC/APC Duplex type
DS	SC duplex type (*)
DT	ST duplex type
LC	LC simplex type (*)
AL	LC/APC simplex type
DL	LC duplex type (*)
GL	LC/APC duplex type
MU	MU simplex type
MP	MPO type
MR	MTRJ type
XX	Others, please specify

(*) Standard housing color: SC, SS, DS, LC, DL (w/ceramic sleeve): Blue
 SC, SS, DS, LC, DL (w/bronze sleeve): Beige

P-BA BARE FIBER ADAPTORS

Features:

- Easy to handle
- Environmentally stable

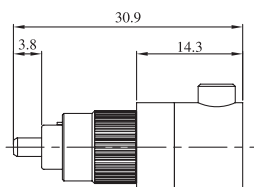
Applications:

- OTDR acceptance testing
- Power meter hookup
- Approximate loss / continuity testing
- Talkset connection
- Visible fault location

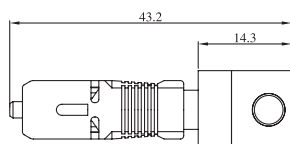


Mechanical Drawings:

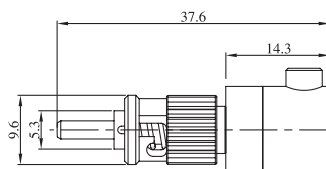
Unit: mm



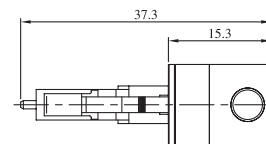
P-BA-FC- □□□



P-BA-SC- □□□



P-BA-ST- □□□



P-BA-LC- □□□

Ordering Information:

P - BA - □□ - □□□

Connector Type

FC	FC type
SC	SC type
LC	LC type
ST	ST type
XX	Others, please specify

Ferrule Inner Diameter

125	125μm
126	126μm
127	127μm
XXX	Others, please specify.

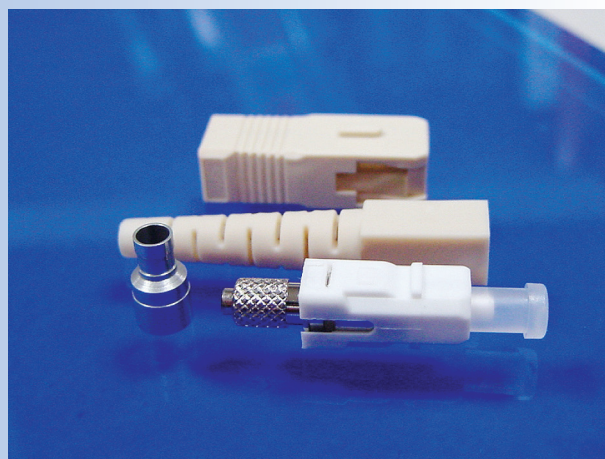
P-CN CONNECTORS

Features:

- Low insertion loss
- Low back reflection loss
- Easy to handle
- Customer defined specifications
- Environmentally stable

Applications:

- Telecommunications
- Local area network
- Fiber to the home
- Fiber optic sensors
- Testing instruments
- CATV



Performance Specifications:

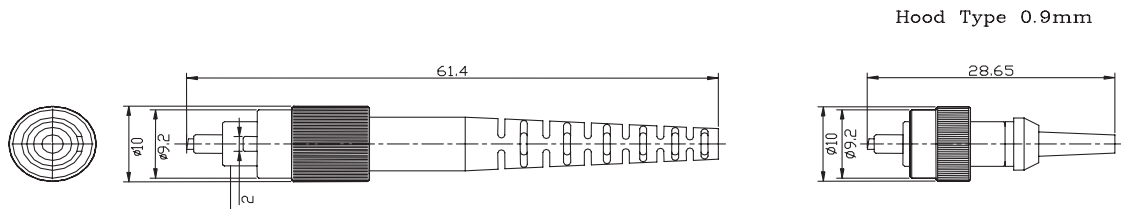
ITEM	Connector Parts	
	Singlemode	Multimode
Mode Type		
Typical Insertion Loss, dB	0.15	0.3
Typical Return Loss(*), dB	-50	—
Operating Temperature, °C	-40 ~ +75	
Storage Temperature, °C	-55 ~ +85	

Note : * for convex polishing only

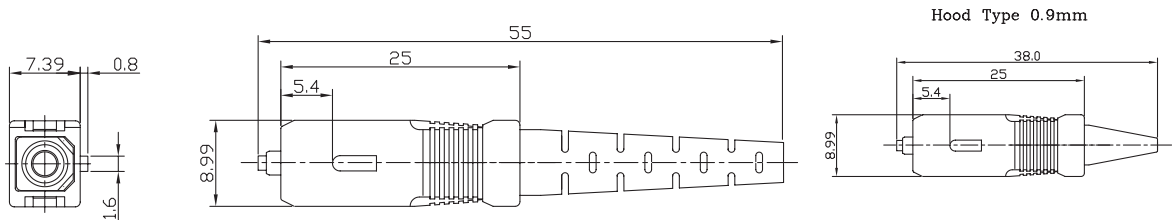
CONNECTORS

Mechanical Drawings:

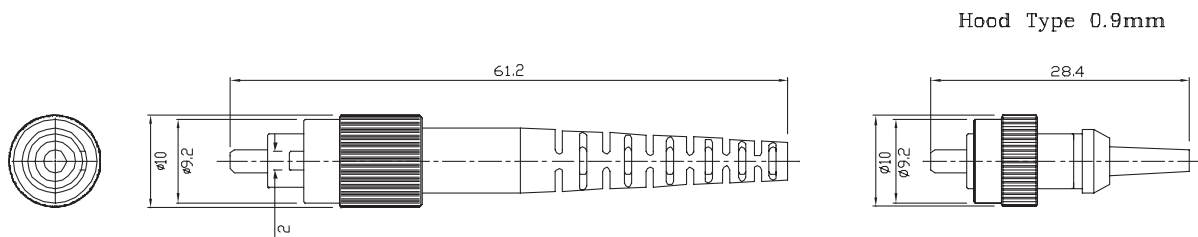
Unit: mm



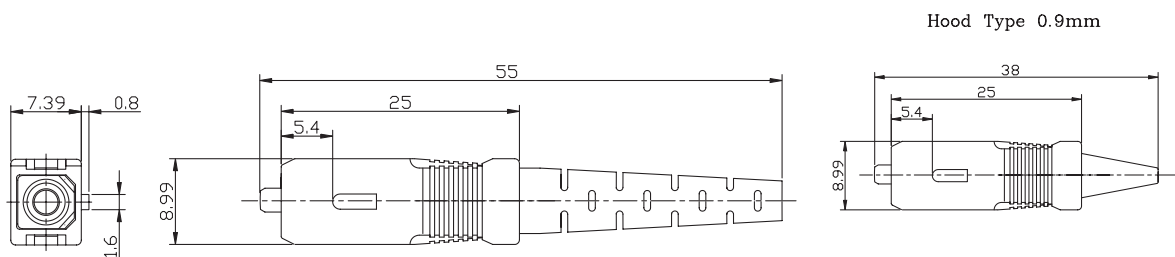
P-CN-AP-□□ - □□□ - □ - □□



P-CN-AS-□□ - □□□ - □ - □□



P-CN-FC-□□ - □□□ - □ - □□

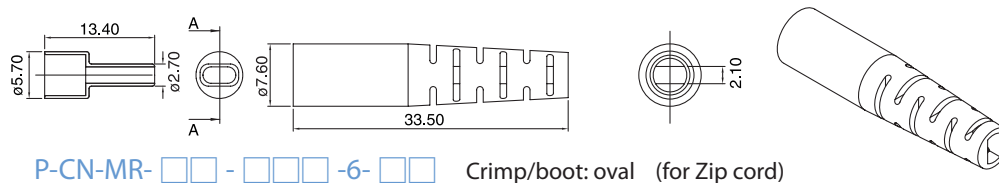
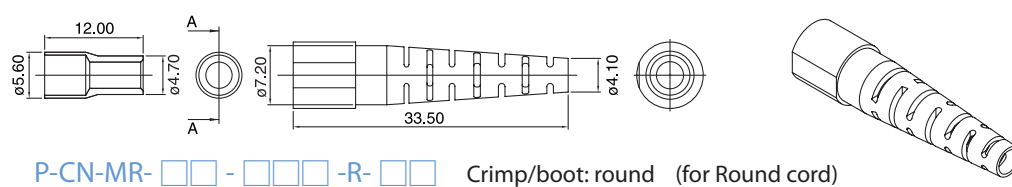
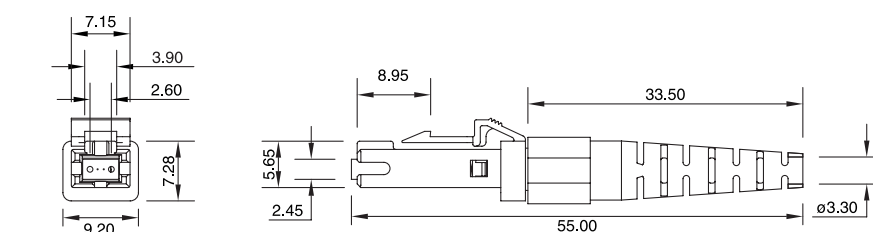
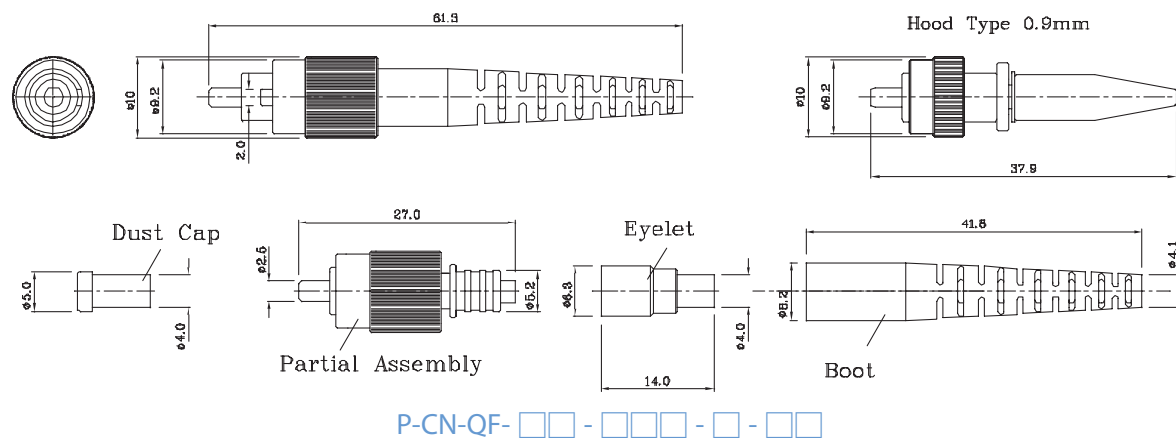
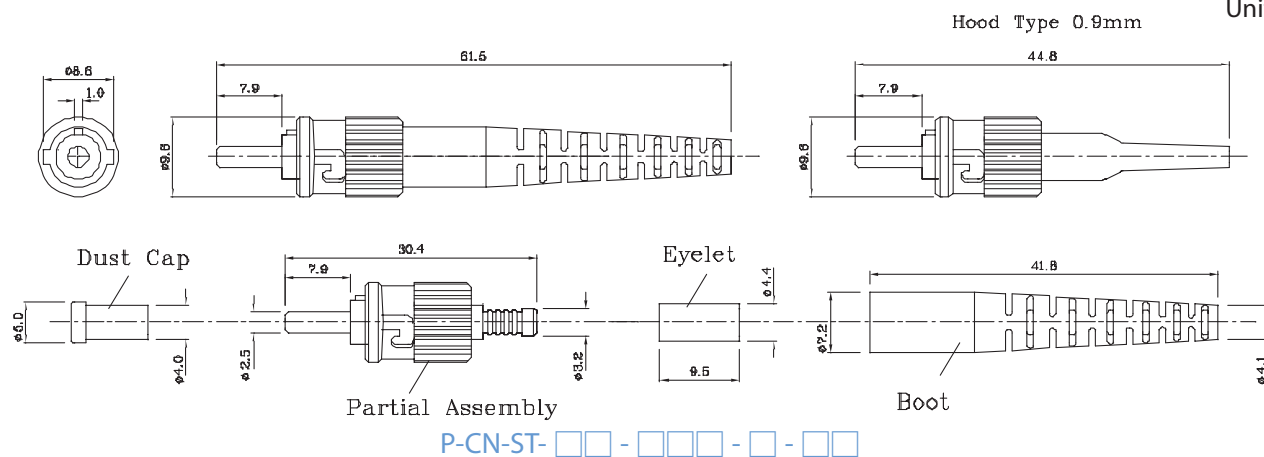


P-CN-SC-□□ - □□□ - □ - □□

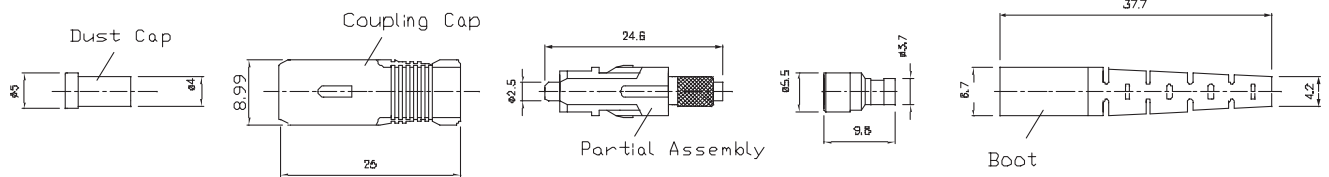
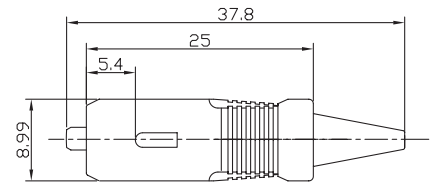
CONNECTORS

Mechanical Drawings:

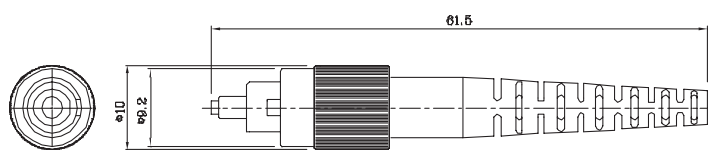
Unit: mm



Unit: mm

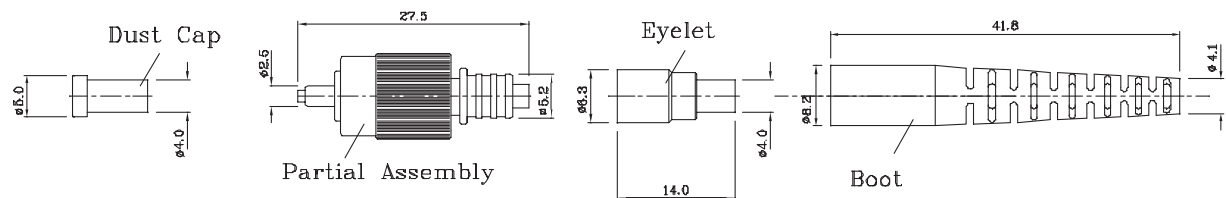


P-CN-QS- - - -



Technical drawing of a nozzle assembly. The drawing shows a side view of the assembly with a central horizontal axis. The dimensions are as follows:

- Overall length: 38.4
- Outer diameter at the base: $\phi 10$
- Inner diameter at the base: $\phi 6.2$



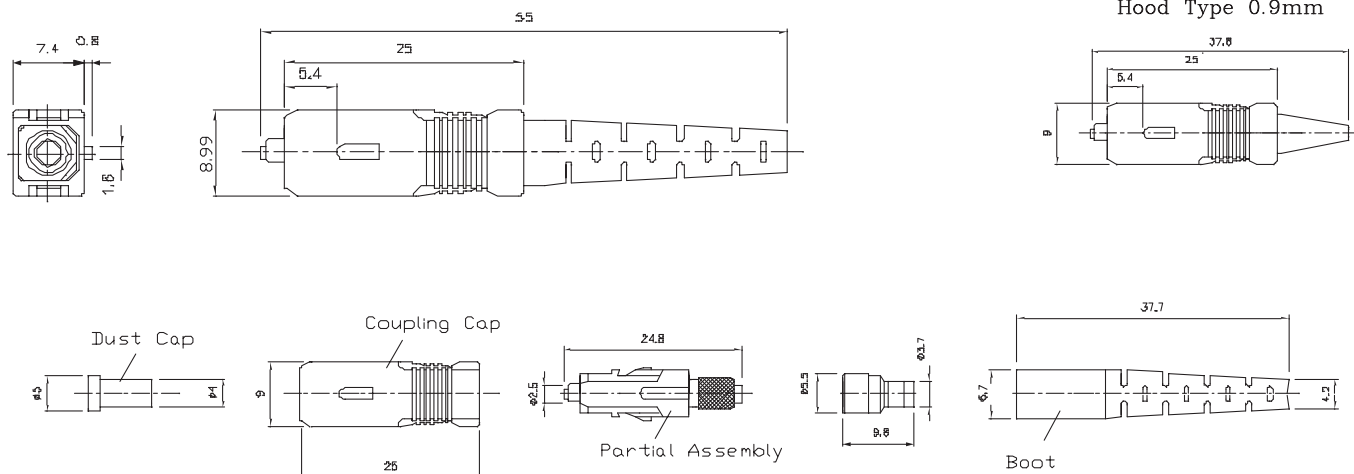
P-CN-QP- - - -

CONNECTORS

Mechanical Drawings:

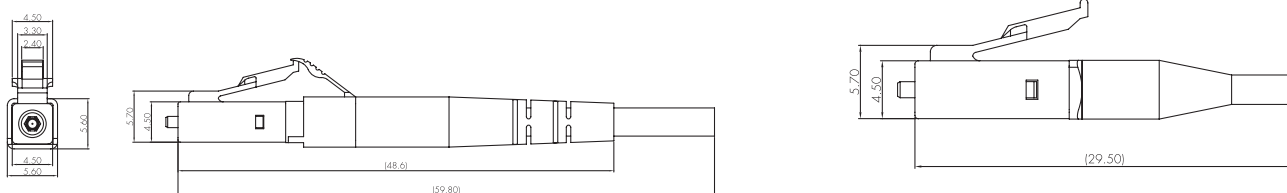
Unit: mm

Hood Type 0.9mm



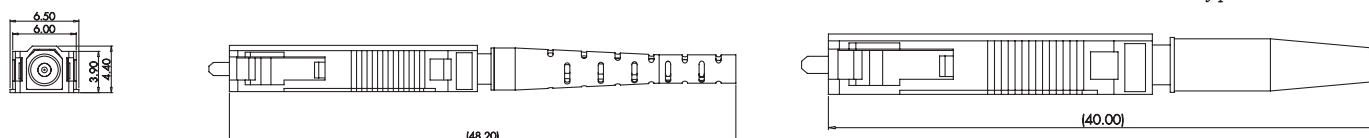
P-CN-QC-□□ - □□□ - □ - □□

Hood Type 0.9mm



P-CN-QL-□□ - □□□ - □ - □□

Hood Type 0.9mm



P-CN-MU-□□ - □□□ - □ - □□

CONNECTORS

Mechanical Drawings:

P - CN - - - - -

Connector Type

AP	FC/APC type (with non-pre-Angle,Step Ferrule)
AS	SC/APC type (with non-pre-Angle,Step Ferrule)
FC	FC type
SC	SC type
S2	SC2 type
QF	Quick assembly FC type
QS	Quick assembly SC type
QP	Quick assembly FC/APC type (with non-pre-Angle Step Ferrule)
QC	Quick assembly SC/APC type (with non-pre-Angle Step Ferrule)
QL	Quick assembly LC type
ST	ST type
LC	LC simplex type
DL	duplex quick assembly LC type
MU	MU simplex type
DM	MU duplex type
MR	MTRJ Female
MS	MTRJ Male
XX	Others, please specify

Ferrule Material

M	Metal
C	Ceramic (Zirconia)
P	Plastic
X	Others, please specify

Mode Type

S	Singlemode
M	Multimode

Ferrule Inner Diameter

125	125μm
126	126μm
127	127μm
12h	125.5μm
XXX	Others, please specify

Hood Type

1	0.9mm	2	2.4mm	6	3.0mm (MTRJ-oval crimp/boot)
3	3.0mm	4	3.0mm (Strain relief boot)	R	3.0mm (MTRJ-round crimp/boot)
5	2.0mm				

Hood Color

BL	Black
GN	Green
BU	Blue
RE	Red
BG	Beige
WH	White
XX	Others, please specify

P-FR FERRULES

Features:

- Low insertion loss
- Low backreflection loss
- Easy to handle
- Environmentally stable

Applications:

- Telecommunications
- Local area network
- Fiber to the home
- Fiber optic sensors
- Testing instruments
- CATV



Performance Specifications:

ITEM		Ferrules	
Mode Type		Singlemode	Multimode
Capillary Tolerance, mm		+0.001/-0	+0.004/-0
Typical Insertion Loss, dB		0.15	0.3
Typical Return Loss(***), dB		-50	—
Operating Temperature, °C		-40 ~ +75	
Storage Temperature, °C		-55 ~ +85	

Note : *** for convex polishing only

Ordering Information:

P - FR - - - -

Connector Type

- | | |
|----|-------------------------------------|
| AP | FC/APC, SC/APC type Conical Ferrule |
| AT | FC/APC, SC/APC type Step Ferrule |
| FC | FC, SC type |
| ST | ST type |
| LC | LC type |
| MU | MU type |
| XX | Others, please specify |

Ferrule Material

- | | |
|---|----------------------------------|
| M | Metal with flange |
| C | Ceramic (Zirconia) with flange |
| W | Ceramic(Zirconia) without flange |
| X | Others, please specify |

Ferrule Inner Diameter

- | | | | |
|-----|-------|-----|------------------------|
| 125 | 125μm | 126 | 126μm |
| 127 | 127μm | XXX | Others, please specify |

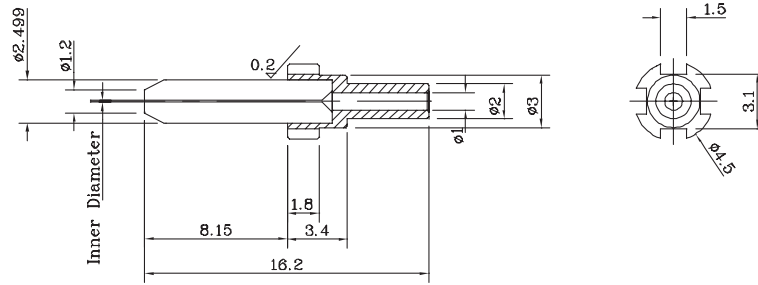
Mode Type

- | | | | |
|---|------------|---|-----------|
| S | Singlemode | M | Multimode |
|---|------------|---|-----------|

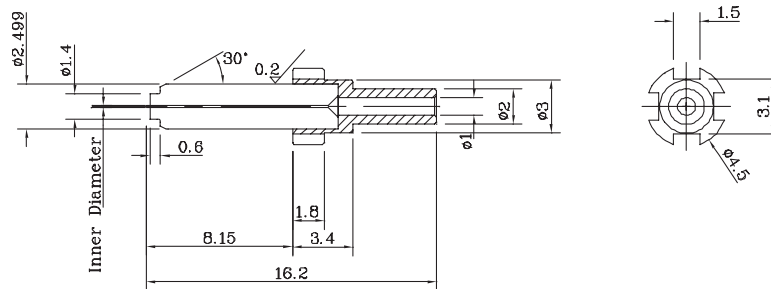
FERRULES

Mechanical Drawings:

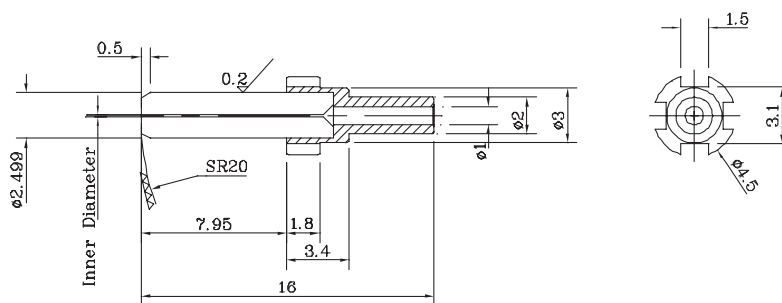
Unit: mm



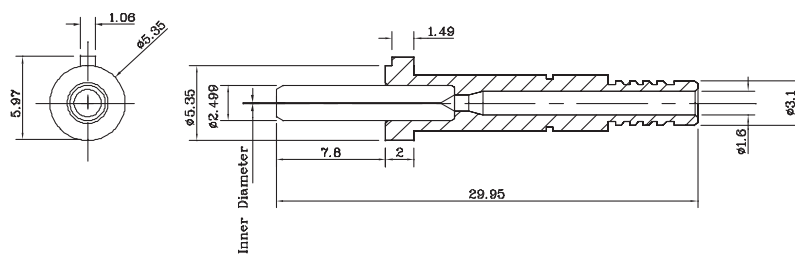
P-FR-AP-□ - □□□ - □



P-FR-AT-□ - □□□ - □



P-FR-FC-□ - □□□ - □



P-FR-ST-□ - □□□ - □

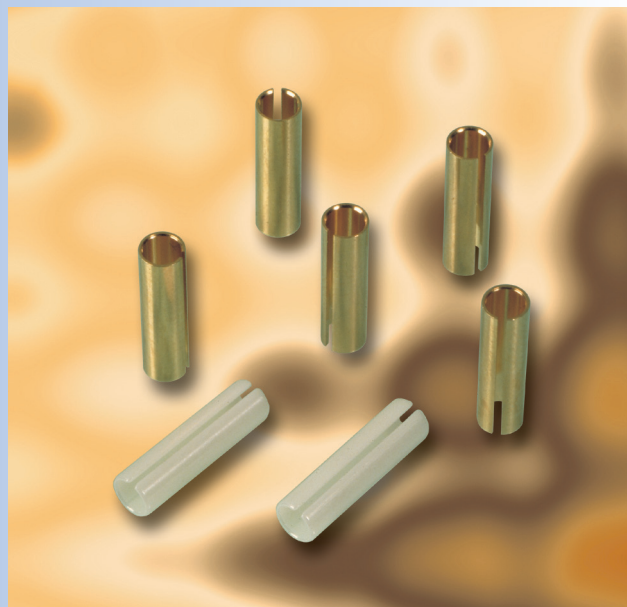
P-SV SLEEVES

Features:

- Low insertion loss
- Easy to handle
- Environmentally stable

Applications:

- Telecommunications
- Local area network
- Fiber to the home
- Fiber optic sensors
- Testing instruments
- CATV



Performance Specifications:

ITEM	Adaptors	
	Ceramic	Bronze
Sleeve Material	Ceramic	Bronze
Typical Insertion Loss, dB	0.1	0.3
Maximum Insertion Loss, dB	0.3	0.5
Operating Temperature, °C	-40 ~ +75	
Storage Temperature, °C	-55 ~ +85	

Ordering Information:

P - SV - -

Type

- SC SC type
- XX Others, please specify

Sleeve Material

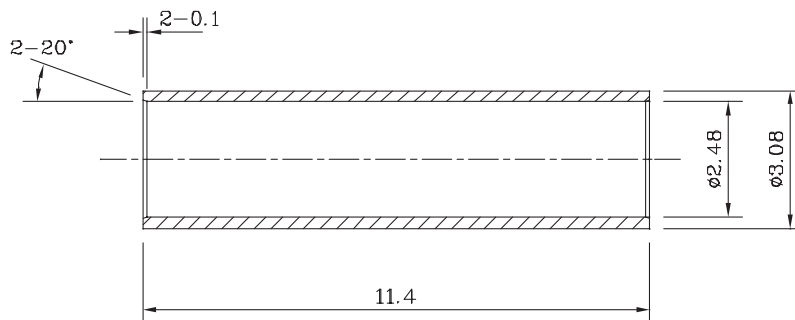
- B Bronze
- C Ceramic (Zirconia)

SLEEVES

Mechanical Drawings:

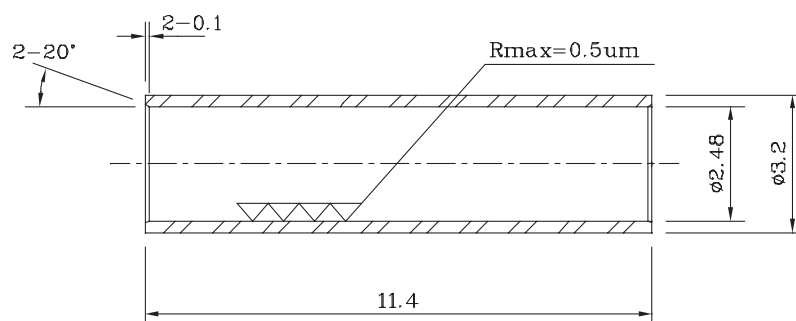
Unit: mm

Material : Metal (Ph.-Bronze / Be.-Bronze) Multimode



P-SV-□□-B

Material : Ceramic (Zirconia)



P-SV-□□-C

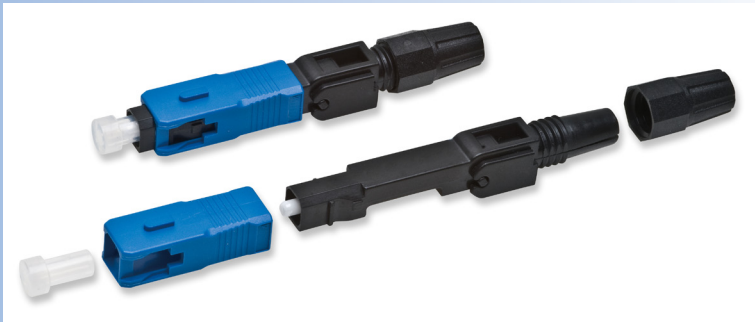
P-FA Field Installable Connectors

Features:

- No electricity required
- No special tool needed
- No epoxy, no polishing
- Less than 2 min. termination
- Removable and reusable

Applications:

- Local Area Network(LAN)
- Wide Area Network(WAN)
- Intra-Building



Performance Specifications:

ITEM		Unit	Specification
Fiber Type			Singlemode
Insertion Loss	Typical	dB	0.3
	Max	dB	0.4
Return Loss	Min	dB	40
Cable Diameter		mm	3.0

Ordering Information:

				P - FA - -A -CX S- -01			
Connector Type							
SC	SC/PC	AS	SC/APC				
Fiber Type							
A	Singlemode						
Cable Type							
3	3.0mm Drop cable	F	Flat Cable (3.1x2.0mm)				
Polishing Type							
CX	Convex						
Grade							
S	Super Grade						
Hood Color							
BU	Blue						
GN	Green						

J-AX ANGLED FIBER PIGTAILS / PATCHCORDS

Features:

- Low insertion loss
- Low back reflection loss
- Custom defined specifications
- Easy installation
- Environmentally stable

Applications:

- Telecommunications
- Local area network
- Fiber to the home
- Video transmission
- Fiber optic sensing
- Testing instruments
- CATV



Performance Specifications:

ITEM	Angled Fiber Pigtail/Patchcords	
Grade	S	H
Typical Insertion Loss, dB	0.15	0.30
Maximum Insertion Loss, dB	0.30	0.50
Typical Return Loss, dB	-67	-62
Minimum Return Loss, dB	-65	-60
Operating Temperature, °C	-20 ~ +70	
Fiber Length	To any specified length (ferrule end to ferrule end)	

ANGLED FIBER PIGTAILS / PATCHCORDS

Ordering Information:

J - - - AG - - - - /

Connector Type

- AP FC/APC type
- AS SC/APC type
- AL LC/APC type
- AE E2000/APC type
- HY Hybrid

Fiber Type

- A Standard singlemode fiber
- J G.657. A1 fiber
- L G.657. A2 fiber
- M G.657. B2 fiber
- N G.657. B3 fiber
- B Dispersion shift fiber (check availability)
- I Singlemode G.655 fiber
- X Others, please specify

Cable Type

- C Simplex, coated fiber (250μm)
- T Simplex, PVC tight buffer cable (0.9mm)
- H Simplex, Hytrel tight buffer cable (0.9mm)
- O Simplex, PVC cable (2.0mm)
- Q Simplex, PVC cable (3.0mm)
- E Duplex, PVC cable (2.0mm)
- D Duplex, PVC cable (3.0mm)
- B Simplex, LSZH semi-tight buffer cable (0.9mm)
- F Simplex, LSZH cable (2.0mm)
- I Simplex, LSZH cable (3.0mm)
- K Duplex, LSZH cable (2.0mm)
- N Duplex, LSZH cable (3.0mm)
- X Others, please specify

Grade

- S Super
- H High

Pigtail/Patch cord Length

Please specify in meters. If centimeters are desired, please start with "X" followed by 3 digits

Configuration

- SG Pigtail
- DB Patch cord

Connector Type (for both ends)

- AP FC/APC type
- AS SC/APC type
- AL LC/APC type
- AE E2000/APC type
- NC None

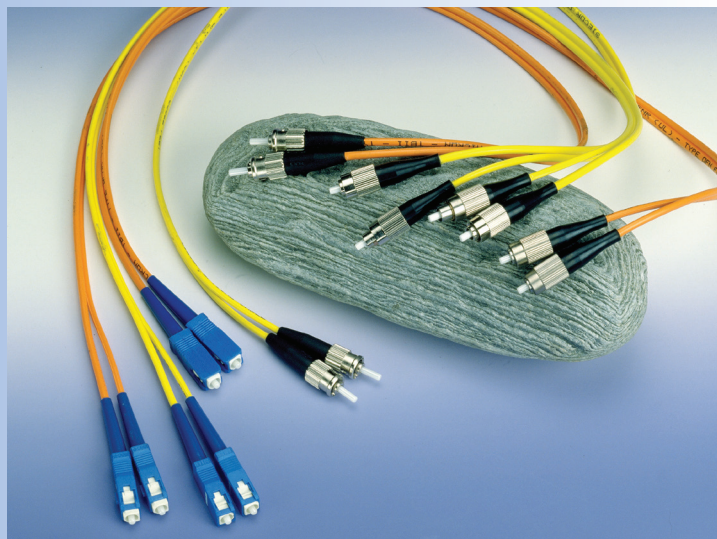
J-XX FIBER PIGTAILS/ PATCHCORDS

Features:

- Low insertion loss
- Low back reflection loss
- Custom defined specifications
- Easy installation
- Environmentally stable

Applications:

- Telecommunications
- Local area network
- Fiber to the home
- Video transmission
- Fiber optic sensing
- Testing instruments
- CATV



Performance Specifications:

ITEM	Fiber Pigtail/Patch cords						
Mode Type	Singlemode					Multimode	
Model Name	J-LC J-MU J-FC J-SC			J-ST		J-FC J-SC J-ST J-LC J-MU	
Grade	U	S	H	S	H	H	A
Typical Insertion Loss, dB	0.15	0.15	0.2	0.25	0.3	0.3	0.5
Maximum Insertion Loss, dB	0.25	0.25	0.32	0.35	0.4	0.4	0.55
Typical Return Loss, dB	55	50	45	48	45	-	-
Minimum Return Loss, dB	50	48	42	45	42	-	-
Operating Temperature, °C	-20 ~ +70						
Fiber Length	To any specified length(ferrule end to ferrule end)						

MODEL NAME	MTRJ Pigtail/Patch cords (J-MR, J-MS)			
Mode Type	Singlemode		Multimode	
Grade	H	A	H	A
Typical Insertion Loss, dB	0.5	0.7	0.3	0.5
Maximum Insertion Loss, dB	0.7	1.0	0.5	0.8
Typical Return Loss, dB	35	30	-	-
Minimum Return Loss, dB	30	25	-	-
Operating Temperature, °C	-20 ~ +70			
Fiber Length	To any specified length (ferrule end to ferrule end)			

FIBER PIGTAILS/ PATCHCORDS

Ordering Information:

J - - - - - - /

Connector Type

HY	Hybrid	E2	E2000
SC	SC type	AE	E2000/APC
DS	Duplex SC (with clip)	AL	LC/APC
LC	LC type		
DL	Duplex LC (with clip)		
MU	MU type		
DM	MU duplex		
FC	FC type		
ST	ST type		
MR	MT-RJ female type		
MS	MT-RJ male type		
XX	Others, please specify		

Fiber Type

A	Standard singlemode fiber
J	G.657. A1 fiber
L	G.657. A2 fiber
M	G.657. B2 fiber
N	G.657. B3 fiber
B	Dispersion shift fiber (check availability)
C	50/125μm fiber
D	62.5/125μm fiber
F	50/125μm OM2
G	50/125μm OM3
H	50/125μm OM4
I	Singlemode G.655 fiber
X	Others, please specify

Cable Type

C	Simplex, coated fiber (250μm)
T	Simplex, PVC tight buffer cable (0.9mm)
H	Simplex, Hytrel tight buffer cable (0.9mm)
O	Simplex, PVC cable (2.0mm)
Q	Simplex, PVC cable (3.0mm)
E	Duplex, PVC cable (2.0mm)
D	Duplex, PVC cable (3.0mm)
B	Simplex, LSZH semi-tight buffer cable (0.9mm)
F	Simplex, LSZH cable (2.0mm)
I	Simplex, LSZH cable (3.0mm)
K	Duplex, LSZH cable (2.0mm)
N	Duplex, LSZH cable (3.0mm)
X	Others, please specify

Polishing Type

CX	Convex	FT	Flat
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Grade

S	Super (singlemode only)	H	High	A	Average
U	UPC (singlemode FC, SC, LC and MU only)				

Configuration

SG	Pigtail
DB	Patchcord

Connector Type (for both ends)

SC	SC type	E2	E2000
DS	Duplex SC (with clip)	AE	E2000APC
AS	SC/APC type	AL	LC/APC
LC	LC type	M2	MU-J
MU	MU simplex type		
DM	MU duplex type		
DL	Duplex LC (with clip)		
FC	FC type		
AP	FC/APC type		
ST	ST type		
MR	MT-RJ female type		
MS	MT-RJ male type		
NC	None		
XX	Others, please specify		

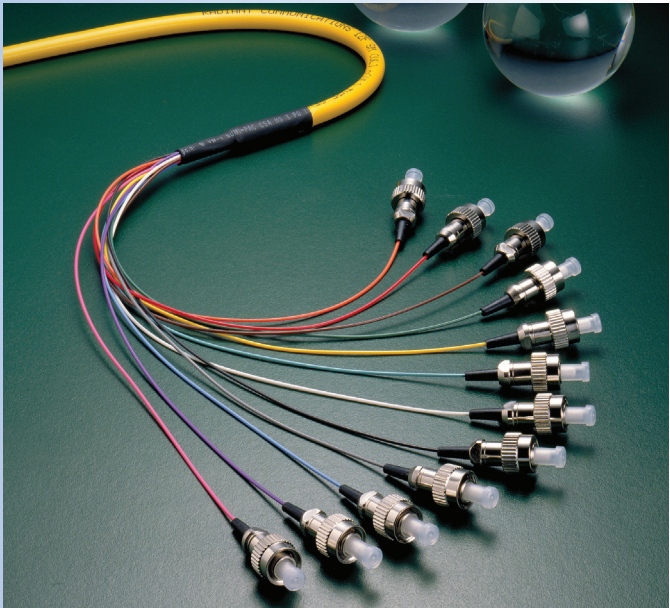
Pigtail/Patch cord Length

Please specify in meters.
If centimeters are desired,
then start with "X" followed
by 3 digits

J-MF MULTI-FIBER FAN-OUT PIGTAILS / PATCHCORDS

- Features:
- Low insertion loss
 - Low back reflection loss
 - Easy installation
 - Custom defined specifications
 - Environmentally stable

- Applications:
- Telecommunications
 - Local area network
 - Fiber to the home
 - Fiber optic sensors
 - Testing instruments

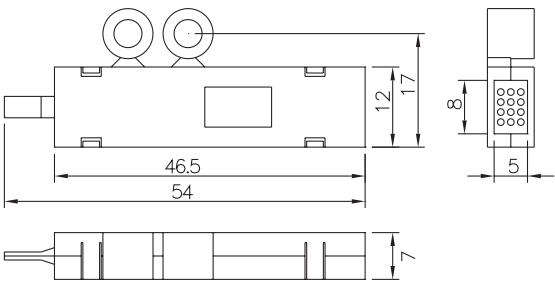


Performance Specifications:

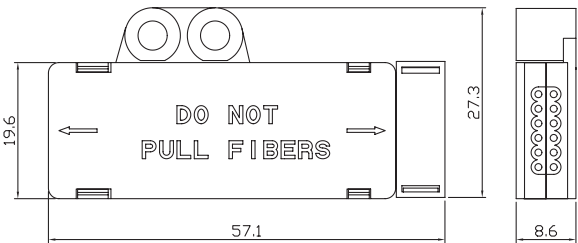
ITEM	Multi-Fiber Fan-Out Pigtail/Patchcords		
	FC, LC, SC type		FC/APC, SC/APC type
Mode Type	SM	MM	SM
Typical Insertion Loss, dB	0.15	0.3	0.3
Max. Insertion Loss, dB	0.25	0.4	0.5
Typical Backreflection, dB	50	-	62
Min. Backreflection, dB	48	-	60

Mechanical Drawings:

Unit: mm



J-MF (0.9 mm type)



J-MF (2.0 mm type)

MULTI-FIBER FAN-OUT PIGTAILS / PATCHCORDS

Ordering Information:

J - MF - - - - - - /

Fiber Type

A	Singlemode fiber	R	Singlemode ribbon fiber
J	G.657. A1 fiber	X	Others, please specify
L	G.657. A2 fiber	I	Singlemode G.655 fiber
M	G.657. B2 fiber	F	50/125μm OM2
N	G.657. B3 fiber	G	50/125μm OM3
C	50/125μm	H	50/125μm OM4
D	62.5/125μm		

Cable Type

C	Simplex, coated fiber (250μm)
L	Simplex, 0.9mm loose tube cable
O	Simplex, 2.0mm cable (2.0mm)
X	Others, please specify

Fan Out Fiber Count

04	4 cord
08	8 cord
12	12 cord
XX	Others, please specify

Fan Out Cable Length

X30	30 cm
X50	50 cm
100	100 cm
150	150 cm
XXX	Others, please specify

Fiber Length (Include Fan Out Length)

X50	50 cm	001	1 m
002	2 m	010	10 m
015	15m	XXX	Others, please specify

Configuration

SG	Pigtail
DB	Patchcord

Fan Out Cable Connector Type (for both ends)

AP	FC/APC type	FC	FC type
AS	SC/APC type	SC	SC type
ST	ST type	LC	LC type
AL	LC/APC type	E2	E2000 type
AE	E2000/APC type	MU	MU type
NC	None	XX	Others, please specify

J-MP MPO PATCHCORDS

Features:

- High Density
- Compact size
- Push/pull mating for quick installation
- Environmentally stable

Applications:

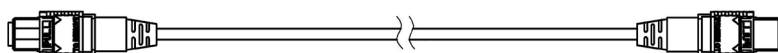
- Telecommunications
- Local area network
- Fiber to the home
- Testing instruments



Performance Specifications:

ITEM	MPO Patchcords			
Cord type	12 Cord		24 Cord	
Mode type	Singlemode	Multimode	Singlemode	Multimode
Typical Insertion Loss, dB	0.50	0.50	0.75	0.75
Max. Insertion Loss, dB	0.75	0.70	1	1
Min. Backreflection, dB	50(flat),60(Angle)	—	50(flat),60(Angle)	—
Repeatability, dB △	≤0.3 (500 matings)	≤0.2 (500 matings)	≤0.3 (500 matings)	≤0.2 (500 matings)
Operating Temperature, °C	-20 ~ +70			

Wiring Type Configurations:



Straight (Type A)		Total flipped (Type B)		Pair flipped (Type C)	
Fiber	Fiber	Fiber	Fiber	Fiber	Fiber
1	1	1	12	1	2
2	2	2	11	2	1
3	3	3	10	3	4
4	4	4	9	4	3
5	5	5	8	5	6
6	6	6	7	6	5
7	7	7	6	7	8
8	8	8	5	8	7
9	9	9	4	9	10
10	10	10	3	10	9
11	11	11	2	11	12
12	12	12	1	12	11

MPO PATCHCORDS

Ordering Information:

J - MP - - - 0 - - - - /

Fiber Count

04	4 cord
08	8 cord
12	12 cord
24	24 cord

Wiring Type

A	Straight (standard)
B	Total flipped
C	Pair flipped

Fiber Type

A	Singlemode fiber
J	G.657. A1 fiber
L	G.657. A2 fiber
M	G.657. B2 fiber
N	G.657. B3 fiber
I	Singlemode G.655 fiber
C	50/125μm
D	62.5/125μm
F	50/125μm OM2
G	50/125μm OM3
H	50/125μm OM4

Ribbon Cable Type

BO	Bare Fiber
RO	Round Cord
VO	Oval Cord, flat

Cable Type(Fan-out section)

C	coated fiber (250μm)	N	no fanout
L	0.9mm loose tube cable	F	LSZH cable 2.0mm
O	2.0mm PVC cable	I	LSZH cable 3.0mm
Q	3.0mmPVC cable	X	Others, please specify

Fiber Length (Include Fanout Length)

0001	1 m		
0002	2 m		
0010	10 m	SG	Pigtail
0015	15 m	DB	Patchcord
X050	50 cm		
XXXX	Others, please specify		

Configuration

Fan Out Cable Length

X30	30 cm	000	no fanout
X50	50 cm	XXX	Others
001	1 m		

Connector Type (MPO/ fanout or MPO)

M0	Male type, flat polish, MPO	SC	SC type	LC	LC type
M8	Male type, 8° APC angled, MPO	AS	SC/APC type	AL	LC/APC type
F0	Female type, flat polish, MPO	FC	FC type	MU	MU type
F8	Female type, 8° APC angled, MPO	AP	FC/APC	NC	None
XX	Others, please specify				

J-AF ARMORED PIGTAILS / PATCHCORDS

Features:

- Low insertion loss
- Easy installation
- Water proof
- Prevention from mouse bite
- Environmentally stable

Applications:

- Telecom equipment connection
- Indoor vertical/horizontal connection
- Local area network
- Fiber to the home



Performance Specifications:

ITEM	Armored Pigtail/Patchcords	
	Singlemode	Multimode
Nos. of Fibers	1, 2, 4, 6, 8, 12	
Typical Insertion Loss, dB	0.15	0.30
Max. Insertion Loss, dB	0.25	0.40
Typical Backreflection, dB	50	-
Min. Backreflection, dB	48	-

ARMORED PIGTAILS / PATCHCORDS

Ordering Information:

J - AF - - - - - - / - XX

Fiber Type

A	Singlemode fiber	D	62.5/125μm
J	G.657. A1 fiber	F	50/125μm OM2
L	G.657. A2 fiber	G	50/125μm OM3
M	G.657. B2 fiber	H	50/125μm OM4
N	G.657. B3 fiber	I	Singlemode G.655 fiber
C	50/125μm		

Cable Type

Q	PCV cable (3.0mm)
I	LSZH cable (3.0mm)
F	LSZH cable (2.0mm)
X	Others, please specify

Fan Out Fiber Count

01	1 cord (simplex)
02	2 cord (duplex)
04	4 cord
08	8 cord
12	12cord
XX	Others, please specify

Fan Out Cable Length

00	none (for simplex / duplex cable)
X30	30 cm
X50	50 cm
100	100 cm
150	150 cm
XXX	Others, please specify

Fiber Length (Include Fan Out Length)

X50	50 cm	001	1 m
002	2 m	010	10 m
015	15m	XXX	Others, please specify

Configuration

SG	Pigtail
DB	Patchcord

Fan Out Cable Connector Type (for both ends)

AP	FC/APC type	FC	FC type
AS	SC/APC type	SC	SC type
ST	ST type	LC	LC type
MU	MU type	NC	None
XX	Others, please specify		

Internal Code

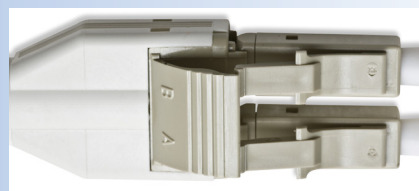
J-LB LOOPBACK PATCHCORDS

Features:

- Compact design
- Easy installation
- Environmentally stable

Applications:

- Equipment interconnection
- Loopback for network
- Components testing



Performance Specifications:

ITEM			
Mode Type	Singlemode	Multimode	
Model	Uniboot LC SC SC/APC	MPO	Uniboot LC SC
Typical Insertion Loss, dB	0.3	1.0	0.3
Maximum Insertion Loss, dB	0.5	1.5	0.5
Operating Temperature, °C	-20~+70		

LOOPBACK PATCHCORDS

Ordering Information:

J - LB - -

Connector Type

- AS SC/APC type
- SC SC type
- LC LC type
- MP MPO type
- XX Others, please specify

Fiber Type

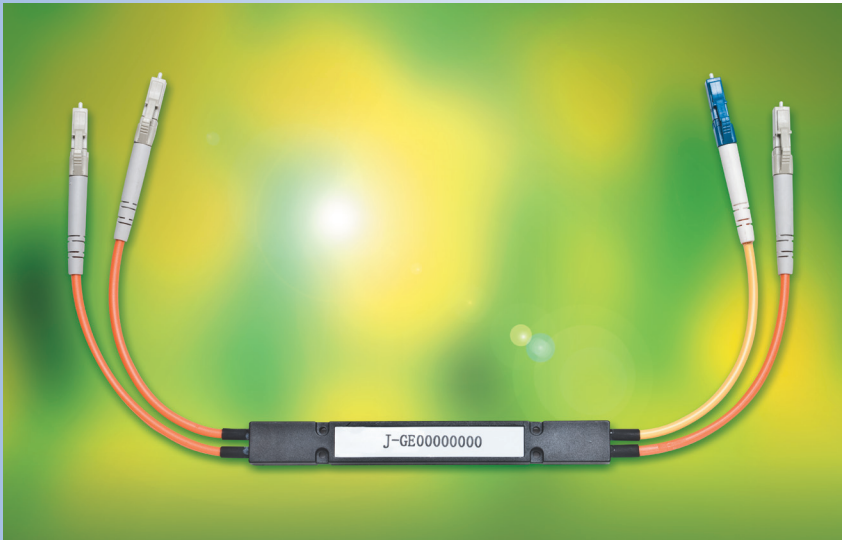
- A Standard singlemode fiber
- C 50/125μm fiber
- D 62.5/125μm fiber
- F 50/125μm OM2
- K 62.5/125μm OM2
- G OM3
- X Others, please specify

Cable Type

- T Simplex, PVC tight buffer cable (0.9mm)
- H Simplex, Hytrel tight buffer cable (0.9mm)
- O Simplex, PVC cable (2.0mm)
- Q Simplex, PVC cable (3.0mm)
- B Simplex, LSZH semi-tight buffer cable (0.9mm)
- F Simplex, LSZH cable (2.0mm)
- I Simplex, LSZH cable (3.0mm)
- X Others, please specify

J-GE GIGABIT ETHERNET PATCHCORDS

- Features:
- Mode conditioning
 - Complaint with IEEE 802.3z standard
 - Low insertion loss
 - Eliminate differential mode delay (DMD) effects
- Applications:
- Gigabit Ethernet 1000BASE-LX
 - VCSEL laser source



Performance Specifications:

ITEM		Gigabit Ethernet Patchcords	
Grade		H (High)	A (Average)
Fiber type, μm		62.5/125,50/125	62.5/125, 50/125
Operating Wavelength, nm		1310	
Maximum Insertion Loss, dB		0.5	0.7
Typical Return Loss, dB	Singlemode channel	30	
	Multimode channel	20	
Coupled Power Ratio, dB		12<CPR<20(50/125 μm) ; 28<CPR<40(62.5/125 μm)	
Operating Temperature, $^{\circ}\text{C}$		-20 ~ +70	
Storage Temperature, $^{\circ}\text{C}$		-55 ~ +85	

GIGABIT ETHERNET PATCHCORDS

Ordering Information:

J - GE - - CX - - - - /

Fiber Type

- C 50/125μm fiber
- D 62.5/125μm fiber
- X Others, please specify

Cable Type

- | | | | |
|---|---------------------------|---|----------------------------|
| D | Duplex, PVC cable (3.0mm) | N | Duplex, LSZH cable (3.0mm) |
| E | Duplex, PVC cable (2.0mm) | K | Duplex, LSZH cable (2.0mm) |
| X | Others, please specify | | |

Polishing Type

- CX Convex

Grade

- H High
- A Average

Pigtail/Patchcord Length

Please specify in meters. If centimeters are desired.
Then start with "X" followed by 3 digits

Configuration

- SG Pigtail
- DB Patchcord

Connector Type (SM + MM Side / MM + MM Side)

- FC FC type
- SC SC type
- ST ST type
- MU MU type
- LC LC type
- MS MTRJ male type
- MR MTRJ female type
- NC None
- XX Others, Please specify

J-TR TRACEABLE FIBER PATCHCORDS

Features:

- Easy and quickly to identify the termination end of patchcords
- Built-in flashing light on each end to be visually traceable
- Power source is easily attached to the test point
- Available in any standard connector type
- 3mm cable diameter



Features:

- Data center cabling
- FTTH distribution center cabling

Performance Specifications:

ITEM	Traceable Fiber Patchcords					
Mode Type	Singlemode					Multimode
Polishing Type	Convex				Angled	Convex
Connector Type	J-LC J-MU J-FC J-SC	J-ST			SC/APC LC/APC FC/APC	
Grade	U	S	U	S	S	H
Typical Insertion Loss,dB	0.15	0.15	0.15	0.25	0.15	0.3
Maximum Insertion Loss,dB	0.25	0.25	0.25	0.35	0.30	0.4
Typical Return Loss,dB	50	50	55	48	67	—
Minimum Return Loss,dB	50	50	50	45	65	—
Operation Temperature, °C	-20~+70					
Storage Temperature, °C	-55~+85					

ITEM	Traceable Fiber Patchcords	
Mode Type	Singlemode	Multimode
Grade	H	H
Typical Insertion Loss,dB	0.5	0.3
Maximum Insertion Loss,dB	0.7	0.4
Typical Return Loss,dB	35	—
Minimum Return Loss,dB	30	—
Operation Temperature, °C	-20~+70	
Storage Temperature, °C	-55~+85	

FIBER PIGAILS / PATCHCORDS

Ordering Information:

J - TR - - - - - - /

Fiber Type			
A	Standard singlemode G.652D fiber		
C	50/125μm fiber		
D	62.5/125μm fiber		
F	50/125μm OM2 fiber		
k	62.5/125μm OM2 fiber		
G	OM3 fiber		
H	OM4 fiber		
I	Singlemode G.655 fiber		
J	Singlemode G.657. A1 fiber		
X	Others,please specify		
Cable Type			
Q	Simples,PVC cable (3.0mm)		
D	Duplex,PVC cable (3.0mm)		
I	Simplex,LSZH cable, (3.0mm)		
N	Duplex,LSZHcable (3.0mm)		
X	Others, please specify		
Polishing Type			
CX	Convex	AG	Angled
Grade			
S	S Grade	H	Angled
U	U Grade		
Patch cord Length			
Please sepcify in meters. If centimeters are desired,then start with "x" followed by 3 digits			
Configuration			
SG	Pigtail		
DB	Patch cord		
Connector Type (for both ends)			
SC	SC type	AS	SC/APC type
DS	Duplex SC type	LC	LC type(short boot)
AL	LC/APC (short boot)	DL	Duplex LC type(short boot)
FC	FC type	AP	FC / APC type
ST	ST type	MU	MU type
MR	MT-RJ female type	MS	MR
XX	Others,please specify		

J-XX-PX POLARIZATION MAINTAINING PIGTAILS/PATCHCORDS

Features:

- PANDA fiber (by Fujikura,Ins.)
- High extinction ratio
- Low angle misalignment($<3^\circ$)
- Low insertion loss

Applications:

- Integrated optics
- Fiber gyros
- Fiber sensor
- Coherent communication system
- Laser-Doppler Anemometry and Velocimetry
- Optical Coherence Tomography



Performance Specifications:

ITEM	Polarization Maintaining Pigtail / Patchcords			
Insertion Loss, dB	Typical		Min.	
(Extinction ratio, dB)	IL	ER	IL	ER
FC / PC	0.3	>25	0.5	>23
FC / APC	0.4	>25	0.8	>23
LC / PC	0.3	>25	0.5	>23
LC / APC	0.4	>25	0.8	>23
Cable assembly length	+ 10% Max		+ 10% Max	



POLARIZATION MAINTAINING PIGTAILS/PATCHCORDS

Ordering Information:

J - - - - - - - /

Connector Type			
FC	FC/PC type	AP	FC/APC type
SC	SC/PC type	AS	SC/APC type
Cable Type			
PQ	Simplex,PVC 3.0mm cable	PT	Simplex,tight buffer cable (900μm)
Polishing Type			
CX	Convex	AG	Angle
Alignment axis			
S	Slow axis to key (general)	F	Fast axis to key
Pigtail/Patchcord Length			
Please specify in meters			
Configuration			
SG	Pigtail	DB	Patchcord
Connector Type			
FC	FC/PC type	AP	FC/APC type
SC	SC/PC type	AS	SC/APC type
NC	None		

J-FS FIBER STUBS

Features:

- Custom configurations available

Applications:

- Laser diode pigtailling
- Hermetic package
- Integrated optics package



Performance Specifications:

ITEM	Fiber Stubs	
Mode Type	Singlemode	
Model	PC	APC
Typical Insertion Loss, dB	0.2	
Maximum Insertion Loss, dB	0.32	
Typical Return Loss, dB	45	55
Minimum Return Loss, dB	40	50
Operating Temperature, °C	-40 ~ +75	
Storage Temperature, °C	-55 ~ +85	
Ferrule Length	To any specified length	

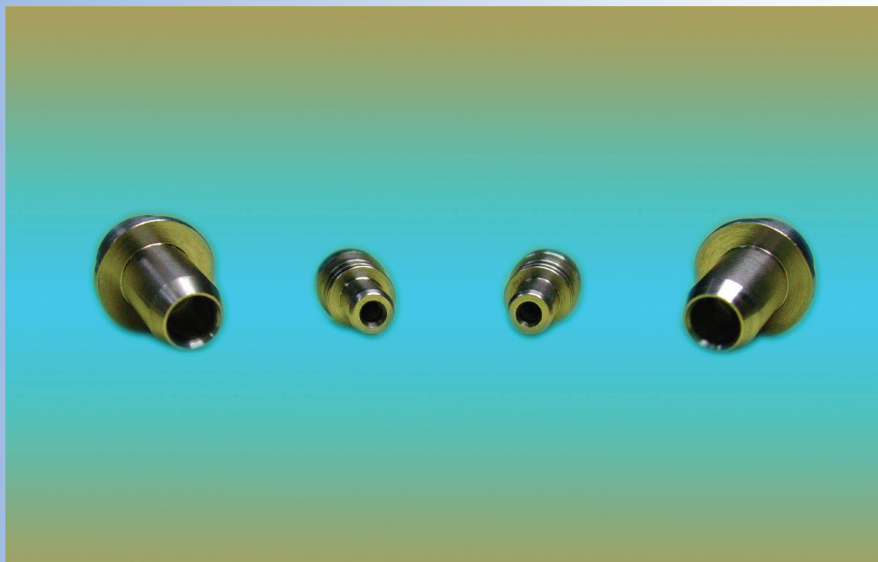
J-SD-FS RECEPTACLES

Features:

- Custom configurations available

Applications:

- Laser diode pigtailing
- Hermetic package
- Integrated optics package



Performance Specifications:

ITEM	Receptacles	
Mode Type	Singlemode	
Model	LC	SC
Insertion Loss, dB	0.3	
Return Loss	45	
Termal Stability, dB (0-65 degree)	≤0.5dB	
Parts Length	7.4~9.4mm (To any specified length)	9.5 ~ 14mm (To any specified length)

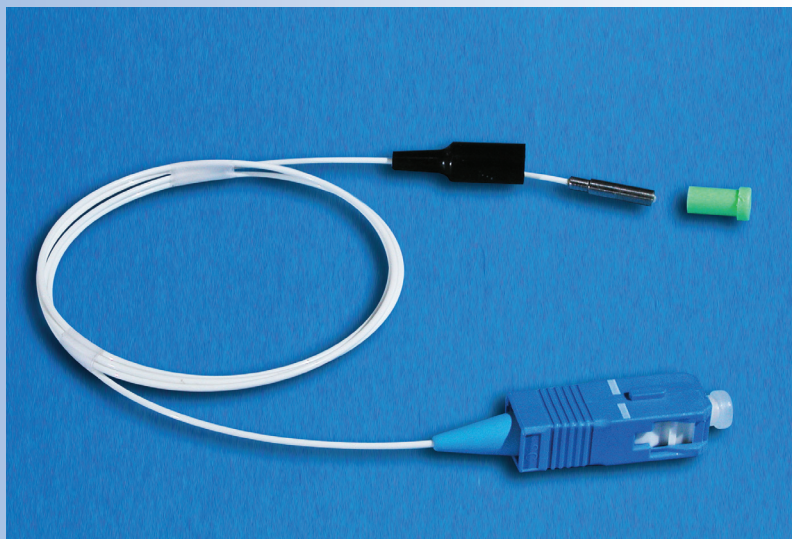
J-HY LASER DIODE / PHOTO DIODE PIGTAILS

Features:

- Low insertion loss
- Low back reflection loss
- Custom defined specifications
- Solderable stainless steel tube
- Easy alignment
- Environmentally stable

Applications:

- Laser diode pigtailing
- Photo diode pigtailing
- Fiber optic sensing
- Testing instruments



Performance Specifications:

ITEM	Stainless Steel Pigtails/ Patch cords	
Mode Type	Singlemode	
Model	J-HY (One end is stainless steel tube encapsulated ferrule)	
Grade	S	H
Typical Insertion Loss, dB	0.15	0.2
Maximum Insertion Loss, dB	0.25	0.32
Typical Return Loss, dB	50	45
Minimum Return Loss, dB	48	42
Operating Temperature, °C	-20 ~ +70	
Storage Temperature, °C	-55 ~ +85	
Fiber Length	To any specified length (ferrule end to ferrule end)	

LASER DIODE / PHOTO DIODE PIGTAILS

Ordering Information:

J - HY - - - - - - /

Fiber Type											
A	Standard singlemode fiber	J	G.657. A1 fiber								
Cable Type											
C	Simplex, PVC coated fiber (250m)										
L	Simplex, PVC loose tube cable (0.9mm)										
T	Simplex, PVC tight buffer cable (0.9mm)										
H	Simplex, Hytrel tight buffer cable (0.9mm)										
A	Simplex, LSZH tight buffer cable (0.9mm)										
B	Simplex, LSZH semi-tight cable (0.9mm)										
X	Others, please specify										
Polishing Type (for connector end only)											
CX	Convex										
FT	Flat										
Grade											
S	Super										
H	High										
Pigtail/Patch cord Length											
Please specify in meters. If centimeters are desired, then start with "X" followed by 3 digits											
Configuration											
SG	Pigtail										
DB	Patch cord										
Connector Type (w/o housing) (for the first end)											
FN	Ø 2.5 Ceramic ferrule w/ 4G Flange with boot (8 degree)										
FO	Ø 2.5 Ceramic ferrule w/ 4G Flange w/o boot (8 degree)										
PN	Stainless ferrule w/ Ø 2.5 Flange with boot (8 degree)										
PO	Stainless ferrule w/ Ø 2.5 Flange w/o boot (8 degree)										
SN	Stainless ferrule w/ Ø 2.5 Flange with boot (6 degree)										
SO	Stainless ferrule w/ Ø 2.5 Flange w/o boot (6 degree)										
XX	Others, please specify										
Connector Type (for the other end)											
SC	SC type										
AS	SC/APC type										
LC	LC type										
MU	MU type										
FC	FC type										
AP	FC/APC type										
ST	ST type										
NC	None										
XX	Others, please specify										

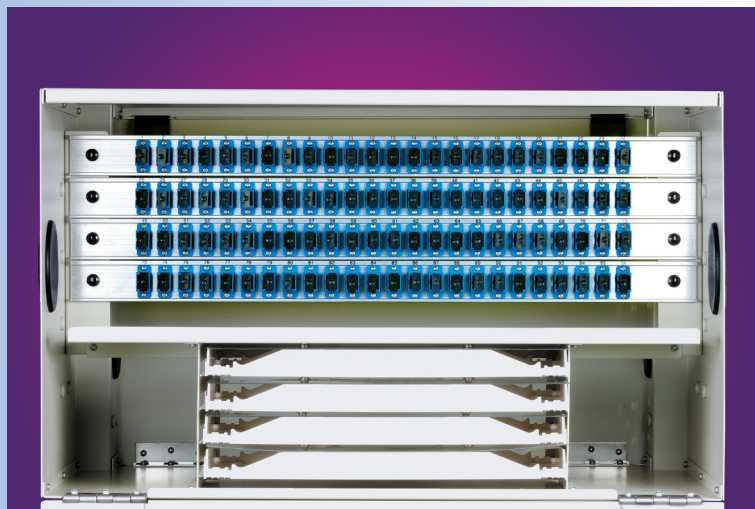
D-RP FIBER OPTIC RACK-MOUNT PATCHPANELS

Features:

- Quick and easy access
- Modular design for fiber optic cable patching
- Up to 108 fiber counts per each panel
- Removable front and rear steel covers
- Retractable splicing trays
- Various removable adaptor plates

Applications:

- Telecommunications
- Local area network
- CATV
- Fiber to the home



Performance Specifications:

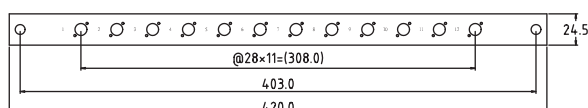
Model Fiber Counts	Number of Splicing tray(s)	Number of Adaptor Plates	Dimensions HxWxD (mm)
D-RP- □ -012 -FC(#21)	D-ST-02 x 1	D-AP- □□ x 1	431 x 56 x 298
D-RP- □ -012 -SC(#20)	D-ST-02 x 1	D-AP- □□ x 1	431 x 56 x 298
D-RP- □ -024 -FC(#18)	D-ST-02 x 1	D-AP- □□ x 1	431 x 78 x 298
D-RP- □ -024 -SC(#4)	D-ST-02 x 1	D-AP- □□ x 1	431 x 56 x 298
D-RP- □ -048 -FC(#5)	D-ST-02 x 2	D-AP- □□ x 2	431 x 214 x 302
D-RP- □ -048 -SC(#4)	D-ST-02 x 2	D-AP- □□ x 2	431 x 170 x 302
D-RP- □ -096 -FC(#5)	D-ST-02 x 4	D-AP- □□ x 4	431 x 344 x 302
D-RP- □ -096 -SC(#4)	D-ST-02 x 4	D-AP- □□ x 4	431 x 258 x 302

Remarks :

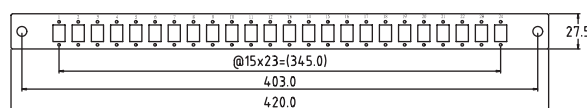
- 1) Typical adaptor insertion loss: 0.15dB for Singlemode; 0.3dB for Multimode, please refer to P-AD catalogue
- 2) The bending curvature of splicing tray: > 40 mm
- 3) 19" and 23" rack mount kits are provided as standard accessories.

Physical Dimensions:

Unit: mm



D-AP-02 (FC Type)



D-AP-04 (SC Type)

FIBER OPTIC RACK-MOUNT PATCHPANELS

Ordering Information:

D - RP - -

Type of Cabinet

- A Type A
- X Others, please specify

Fiber Count

- 024 24 counts
- 048 48 counts
- 096 96 counts

D - AP -

Adaptor Plate

- 01 Blank
- 02 FC type
- 03 ST type
- 04 SC type

Adaptors are not included in the plate.
Please order adaptors separately from P-series if

D - ST -

Splicing Tray

- 01 For Single Fiber (D-RP-A only)
- XX Others, please specify