

J599 Series Fiber Optical Connectors

Features:

- ◆ Comply with GJB599A (MIL-DTL-38999) III series interface
- ◆ Shells made of different materials and plating applicable for different environments
- ◆ Five-keyway orientation with blind mating and anti-mismatching function
- ◆ Three-start thread quick coupling with anti-loose structure
- ◆ Optical alignment using ceramic pin and ferrule to realize precise mating
- ◆ Various termination option
- ◆ Adaptor (hermetic type optional) without optical cable bondage
- ◆ Q/21EJ841 applied enterprise standard









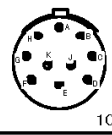
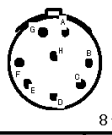
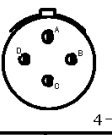
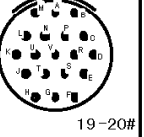
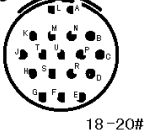
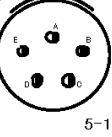
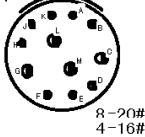
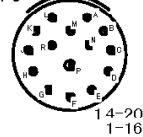
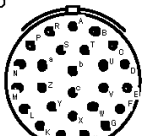
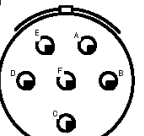
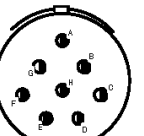
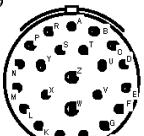
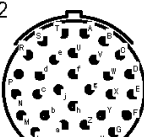
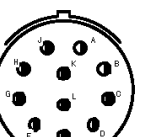
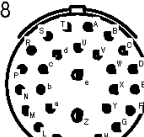
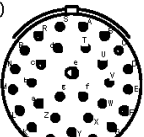
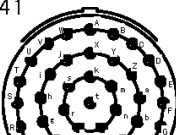
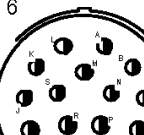
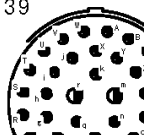
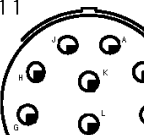
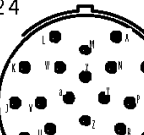
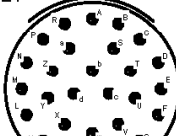
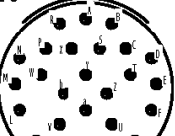
Performance Specifications:

Parameter	Unit	≤4 cores	5~8 cores	≤9~12 cores	≤13~30 cores	≤31~61 cores
Insertion Loss	dB	≤0.6	≤1.0	≤1.3	≤1.5	≤1.8
Vibration	dB	10~500Hz, acceleration 98m/s ²				
Shock	---	980m/s ²				
Durability(cycles)	---	500				
Tensile Strength	---	≥800N				
Operating Temperature	°C	-55 ~ +85				
Heat Damp	---	Temperature(+30±2)°C~(+60±2)°C, Humidity 90%~95%, Duration 4d				

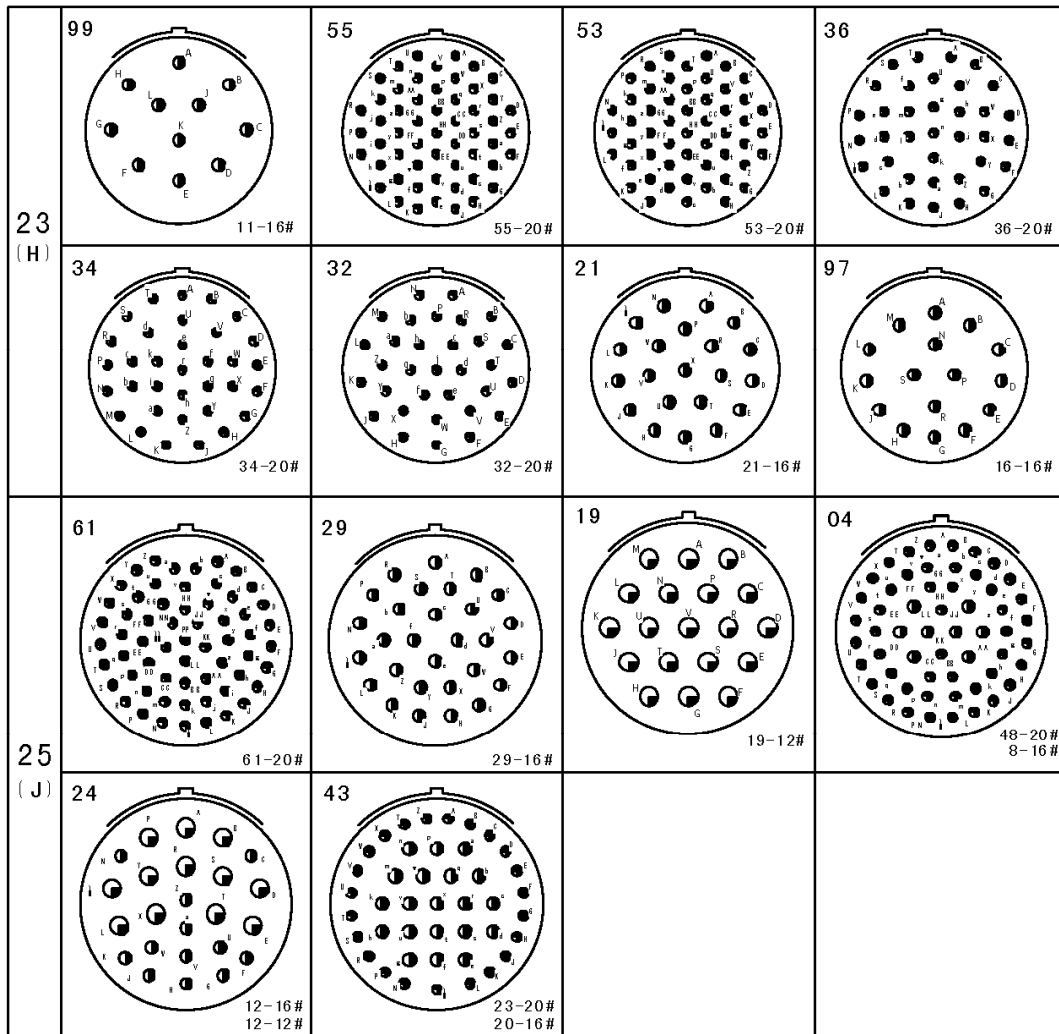
Note:

Any specific requirements, please ask for customization.

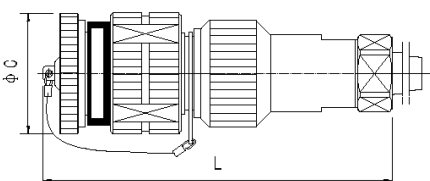
Insert Arrangement: (view from pin insulator interface)

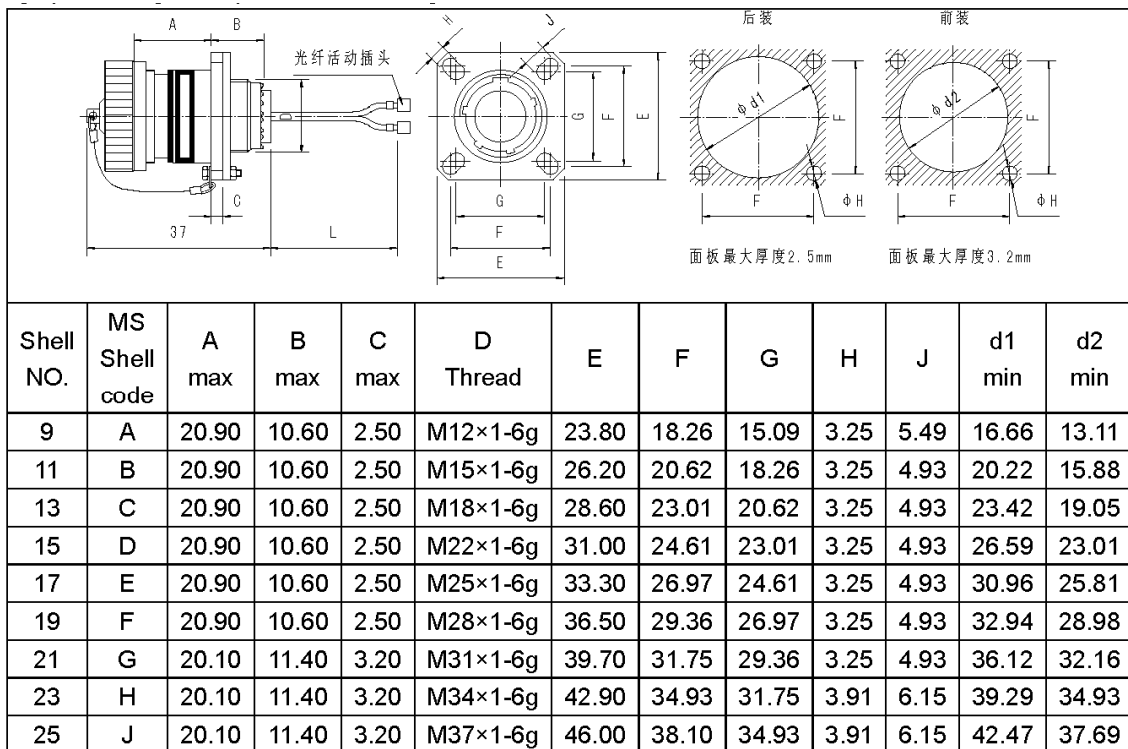
壳体号 09 (A)	98  3-20#	94  2-20#				
11 (B)	98  6-20#	05  5-20#	04  4-20#	01  1-12#	99  7-20#	02  2-16#
13 (C)	98  10-20#	08  8-20#	04  4-16#			
15 (D)	19  19-20#	18  18-20#	05  5-16#	97  8-20# 4-16#	15  14-20# 1-16#	
17 (E)	26  26-20#	06  6-12#	08  8-16#	99  21-20# 2-16#		
19 (F)	32  32-20#	11  11-16#	28  26-20# 2-16#	30  29-20# 1-16#		
21 (G)	41  41-20#	16  16-16#	39  37-20# 2-16#	11  11-12#	24  24-20#	
	27  27-20#	25  25-20#				

 20#
  16#
  12#

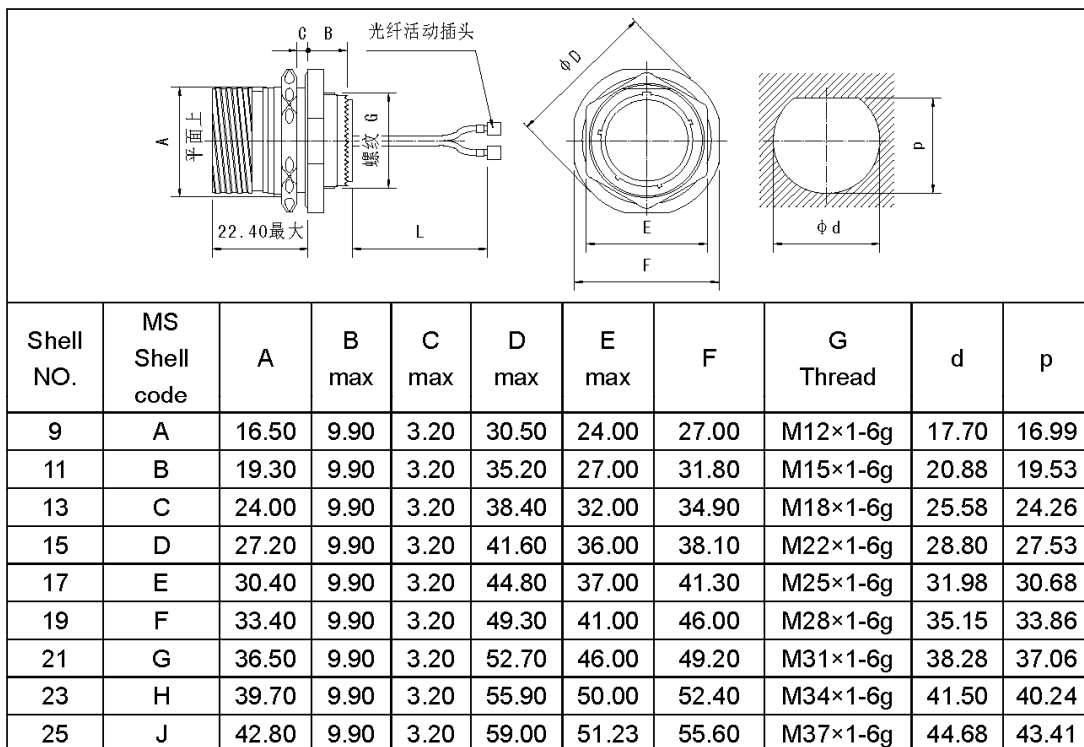


Outline Dimensions: (Plug assemblies)

 <p>Note: L in the table is the maximum dimension of the shell size. Actual length is different by cables.</p>	Shell NO.	MS Shell	C max	L max
	9	A	21.80	82
	11	B	25.00	82
	13	C	29.40	95
	15	D	32.40	115
	17	E	35.60	125
	19	F	38.50	140
	21	G	41.70	160
	23	H	44.90	160
25	J	48.00	160	

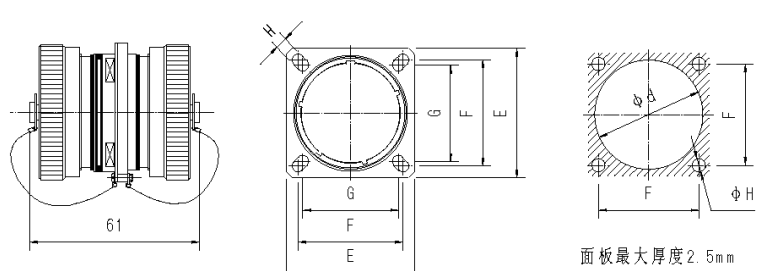
Square Flange Receptacle Assemblies:


Note: dimension A in the figure is from mounting panel to receptacle port.

Nut mounting Receptacle Assemblies:


Square Flange Adapter Receptacle:

去掉防尘帽

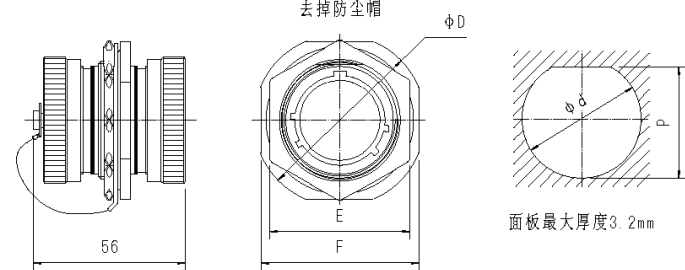


面板最大厚度 2.5mm

Shell NO.	MS shell code	E	F	G	H	D min
9	A	23.80	18.26	15.09	3.25	16.66
11	B	26.20	20.62	18.26	3.25	20.22
13	C	28.60	23.01	20.62	3.25	23.42
15	D	31.00	24.61	23.01	3.25	26.59
17	E	33.30	26.97	24.61	3.25	30.96
19	F	36.50	29.36	26.97	3.25	32.94
21	G	39.70	31.75	29.36	3.25	36.12
23	H	42.90	34.93	31.75	3.91	39.29
25	J	46.00	38.10	34.93	3.91	42.47

Jam Nut Adapter Receptacle:

去掉防尘帽

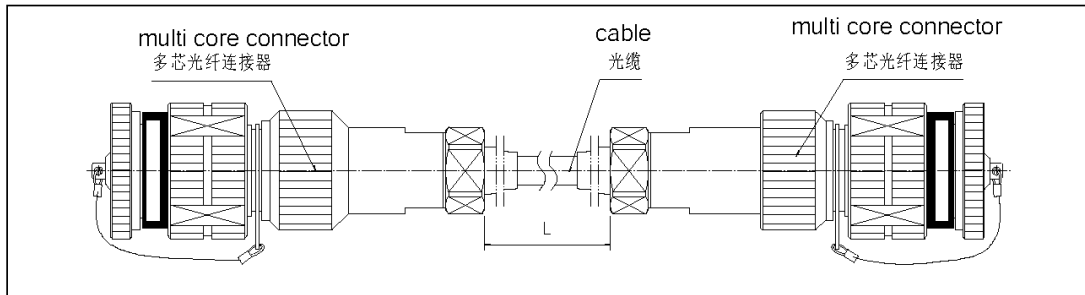


面板最大厚度 3.2mm

Shell NO.	MS shell size code	D	E	F	d	p
9	A	30.50	24.00	27.00	17.70	16.99
11	B	35.20	27.00	31.80	20.88	19.53
13	C	38.40	32.00	34.90	25.58	24.26
15	D	41.60	36.00	38.10	28.80	27.53
17	E	44.80	37.00	41.30	31.98	30.68
19	F	49.30	41.00	46.00	35.15	33.86
21	G	52.70	46.00	49.20	38.28	37.06
23	H	55.90	50.00	52.40	41.50	40.24
25	J	59.00	51.23	55.60	44.68	43.41

J599III Series Optical Connector Can Be Ordered In The Form Of Optical Cable Assembly

I Type Optical Cable Assembly (Outline Figure)



Note: L designates the cable length specified by customers

Characteristic: Both ends on the cable are multi-fiber optical cable connectors; the optical cable is outdoor cable

[PN Explanation]

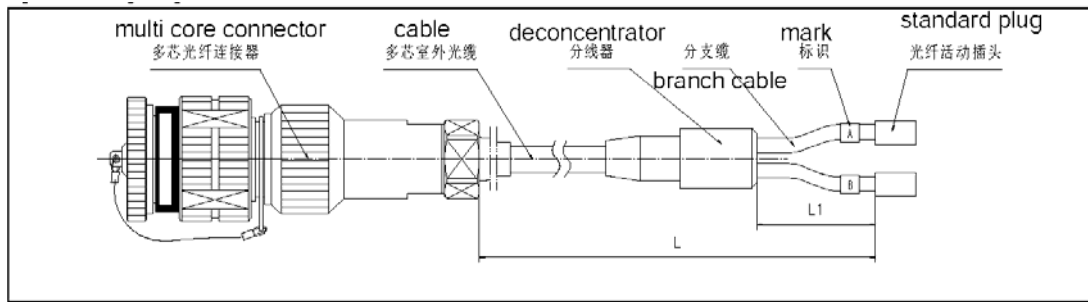
1 end plug P/N	J599/26FC04B1N	-J599/26FC04B1N	-C5*4	-S300	+SFJ04A
2 end plug P/N					
Optical cable characteristics	C—optical cable characteristics code 5*4 — optical cable O.D(mm)*fiber in optical cable				
Transmission mode	S-Optical cable transmission mode; S-single mode G652, M-multi mode 62.5/125, MI- multi mode 50/125				
Optical cable length	300-optical cable length (unit is m). Length tolerance is 1% of the total length The cable length can be customized				
Optical cable take-up and pay-off rack	If there is no take-up and pay-off rack, it is can be omitted Handset: SFJ03A, SFJ04A etc, trolley-type: SFJ05A etc. Refer to take-up and pay-off rack series Pxx for more information.				

[Nomenclature example]

J599/26FB02B1N-J599/26FB02B1N-C5*2-M1000+SFJ05A

Designation: Both ends are J599/26FB02B1N-plugs, $\Phi 5$ two fibers filed operation optical cable, multi mode 62.5/125, 1Km of length is coiled on the SFJ05A trolley-type take-up and pay-off rack

II Type Optical Cable Assembly (Outline Figure)



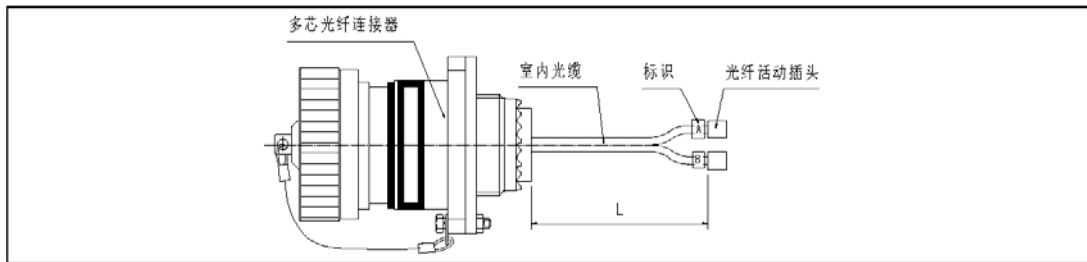
Characteristic: One end of the optical cable is multi-fiber optical connector; the other end is the normal operation optical fiber connector,
 [PN explanation]]

1 end plug P/N	J599/26FC04B1N	-4FC	-C5*4	-2S300/0.5	+SFJ04A
2 end plug P/N	4 denotes the quantity FC-plug type, it can be SC, LC,ST, DIN and so on				
Optical cable characteristics	C— optical cable characteristics code 5*4—optical cable O.D(mm)*fiber in optical cable				
Optical cable characteristics	2- diameter (mm) for branch optical cable S-Optical cable transmission mode; S-single mode G652, M-multi mode 62.5/125, MI- multi mode 50/125 300-optical cable length (unit is m). Length tolerance is 1% of the total length 0.5- length for branch optical cable (unit is m). Length tolerance is 1% of the total length The cable length can be customized				
Optical cable take-up and pay-off rack	If there is no take-up and pay-off rack, it is can be omitted Handset: SFJ03A, SFJ04A etc, trolley-type: SFJ05A etc. Refer to take-up and pay-off rack series Pxx for more information				

[Nomenclature example]

J599/26KH55B1N-55FC-C14*55-2S12.5/2.5

Designation: J599/26KH55B1N plug is on 1 end, 55 FC plugs is on 2 end, Φ14 single mode filed operation optical cable, 55 fibers, the length is 12.5m, the length of branch optical cable is 2.5m

III Type Optical Cable Assembly (Outline Figure)


Note: L designates the cable length specified by customers. The contact arrangement mark for branch optical cable should be consistent with that of multi-fiber connector

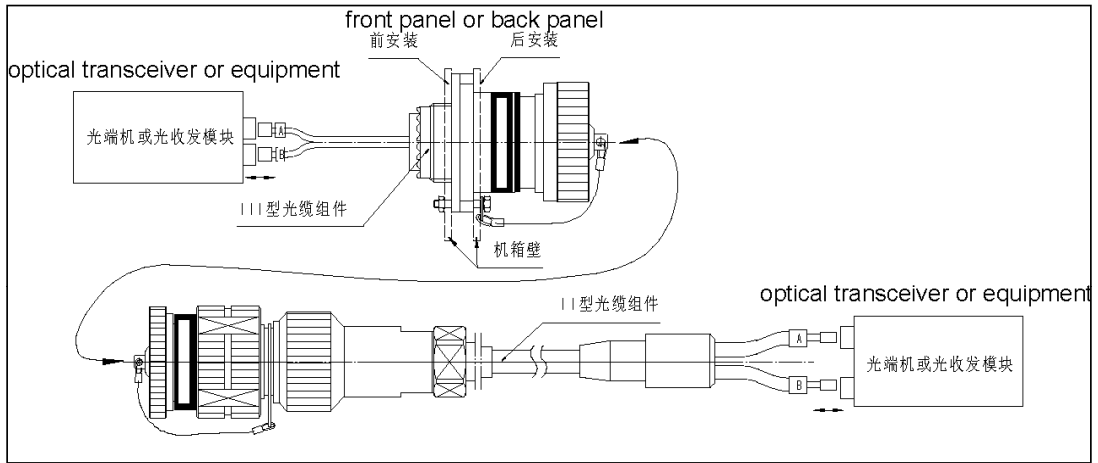
[PN example]

1 end plug P/N	J599/20FC04A1N	-4FC	-S2	L3
2 end plug P/N	4 denotes the quantity FC-plug type, it can be AFC, SC, LC, ST, DIN and so on			
Optical cable characteristics	S-Optical cable transmission mode; S-single mode G652, M-multi mode 62.5/125, MI- multi mode 50/125			
Optical cable characteristics	L3-optical cable length (unit is m). Length tolerance is 1% of the total length The cable length can be customized			

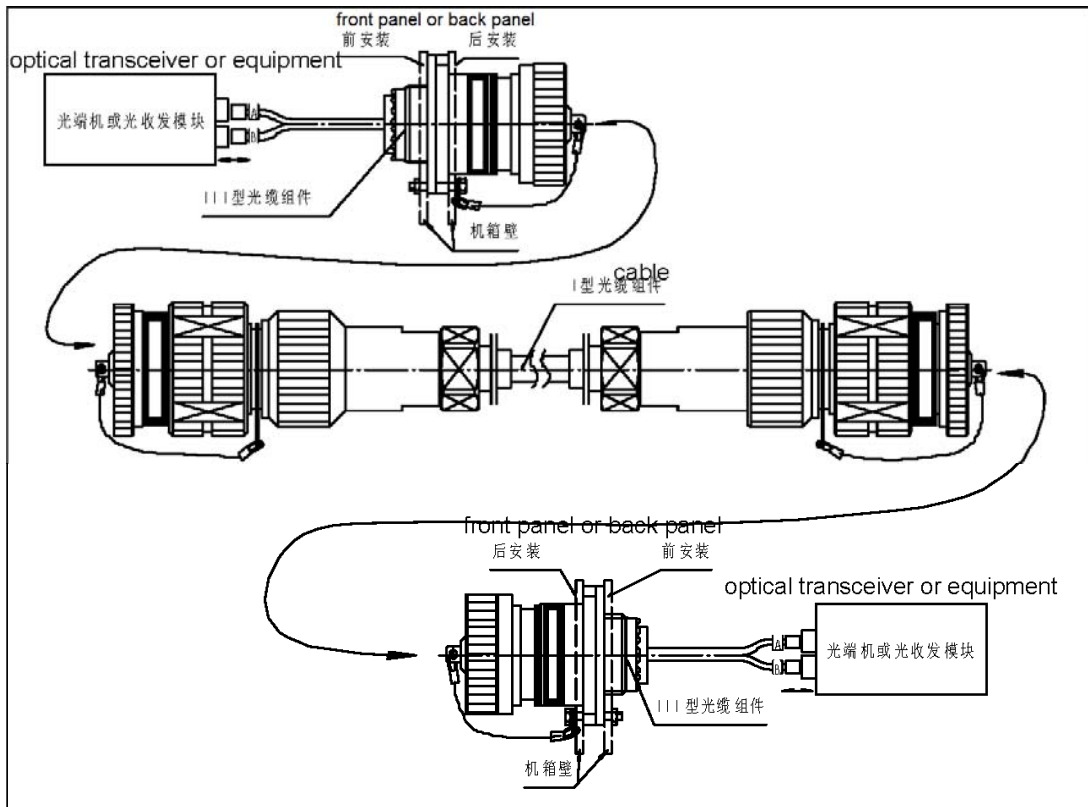
[Nomenclature example]

J599/20FE08A1N-8AFC-S2-L1.5

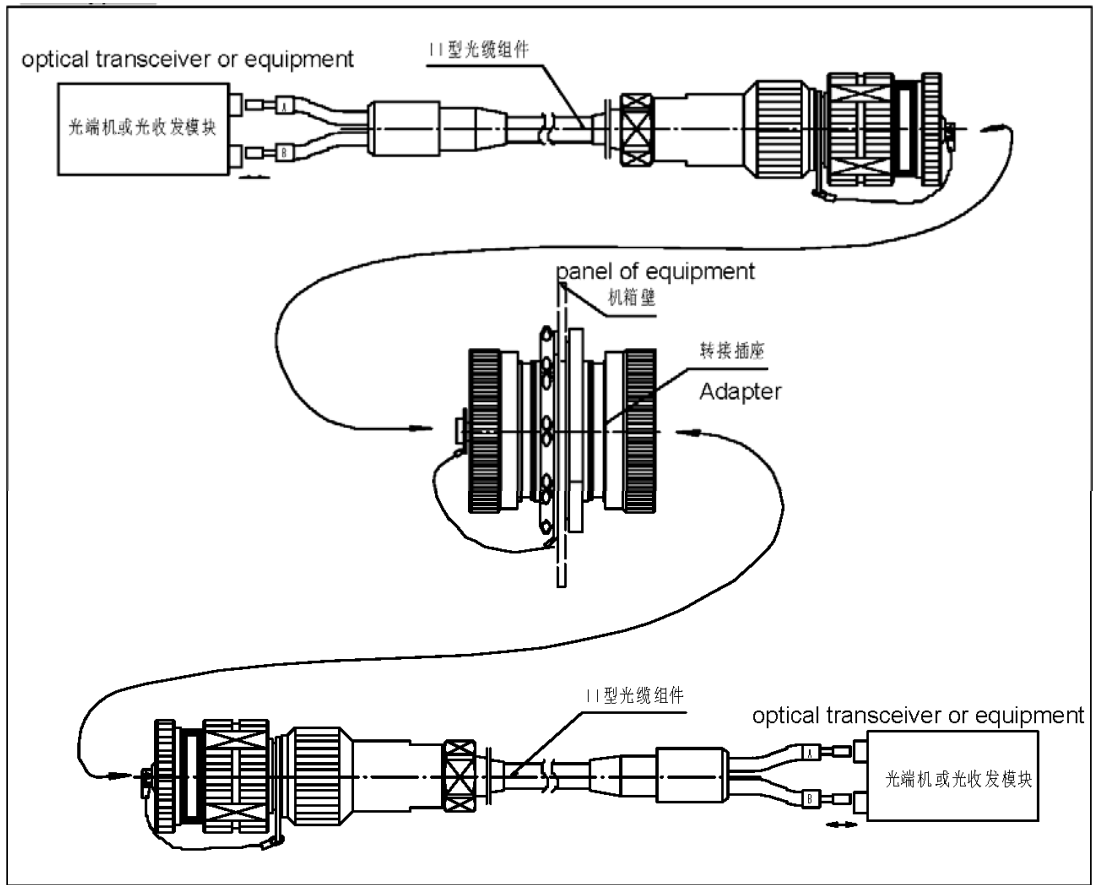
Designation: J599/20FE08A1N8 receptacle is on 1end, 8 C/APC plugs are on 2 end, single mode and Φ 2 single-fiber optical cable, the length is 1.5m

Telecommunication System Link Type:
Link Type 1


- Note: 1) According to the position of the connector installed on the wall of the cabinet, it can be front installation and rear installation, either can be chosen.
 2) Bidirectional arrowhead denotes mating relation

Link Type 2


- Note: 1) According to the position of the connector installed on the wall of the cabinet, it can be front installation and rear installation, either can be chosen.
 2) Bidirectional arrowhead denotes mating relation

Link Type 3


Note: 1) Bidirectional arrowhead denotes mating relation
 2) Adapter receptacle is only applicable to J599, GY and YM series optical fiber connector

Part No.
Plug

Basic series	J599/	26	W	C	04	B1	N	01		
Shell type	26- plug									
Plating	W—aluminum alloy with olive green cadmium plating									
	F—aluminum alloy with electroless nickel plating									
	K—stainless steel passive									
Shell size	9	11	13	15	17	19	21	23	25	
Index	A to J	A	B	C	D	E	F	G	H	J
Layout	see "insert arrangement" for details									
Contact	A1—fiber optic pin B1—fiber optic socket									
Polarization	N—normal; A/B/C/D/E—variations									
Design no.	01... (Normally there is no this No.)									

Receptacle

Basic series	J599/	20	W	C	04	A1	N	01		
Shell type	20—square flange receptacle 24—nut mounting receptacle									
Plating	W—aluminum alloy with olive green cadmium plating F—aluminum alloy with electroless nickel plating K—stainless steel passive									
Shell size	9	11	13	15	17	19	21	23	25	
Index	A to J	A	B	C	D	E	F	G	H	J
Insert arrangement	details see “insert arrangement” for details									
Contact	A1—fiber optic pin B1—fiber optic socket									
Polarization	N—normal; A/B/C/D/E—variations									
Design no.	01..... (Normally there is no this NO.)									

Note: 1) order plug and receptacle in fiber optic assemblies form with cable and free plug part number see P7.

2) Fiber optic free plug can be SC, ASC, FC, AFC, ST, LC, DIN, etc

3) Cable length provided according to customer requirements(unit: m)

Adaptor designation

Basic series	J599/	24	Y	H	55	C1	N	-S		
Shell type	20—square flange receptacle 24—nut mounting receptacle									
Plating	W—aluminum alloy with olive green cadmium plating F—aluminum alloy with electroless nickel plating K—stainless steel passive Y—stainless steel passive(hermetic)									
Shell size	9	11	13	15	17	19	21	23	25	
Index	A to J	A	B	C	D	E	F	G	H	J
Insert arrangement	details see “insert arrangement” for details									
Contact	C1— bulkhead fiber optic pin									
Polarization	N—normal; A/B/C/D/E—variations									
Transmission mode	S—SM	M—MM(62.5/125)	MI—MM(50/125)							