RAINEON

南京睿宁电子科技有限公司

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PRODUCT CATALOGUE

Aviation Connectors | Interconnect Technology



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RAINEON J599A8 Series Fiber Optic Connectors

Features

- GJB599A (MIL-DTL-38999) series III interface
- Shell materials and finishes for different environments
- Standard 1.25 mm ceramic ferrules
- Fibre contacts per ARINC 801
- Removable integral sleeve for easy cleaning
- Guide posts improve alignment accuracy
- Excellent shock and vibration resistance
- Company standard: Q/Lks.J(02)297A-2013



Technical Characteristics

- Insertion loss: <=0.6 dB
- Return loss (single-mode SM): >= 40 dB
- Operating temperature: -55 °C to +85 °C (state specially when ordering for other requirements)
- Vibration: 10 to 2000 Hz, PSD 0.4 G /Hz
- Shock: half-sine 300 g, 3 ms
- Mechanical life: 500 cycles

Note: the loss refers to the connector only; cable loss is additional (0.4 dB/km @1310 nm for single-mode, 0.8 dB/km@1300 nm, MM 62.5/125: 1 dB/km@1300 nm); for use at 1550 nm, state specially when ordering.

J599A8 Connector Model Naming

J599A8	/	26	F	B	02	F	N
1.		2.	3.	4.	5.	6.	7.

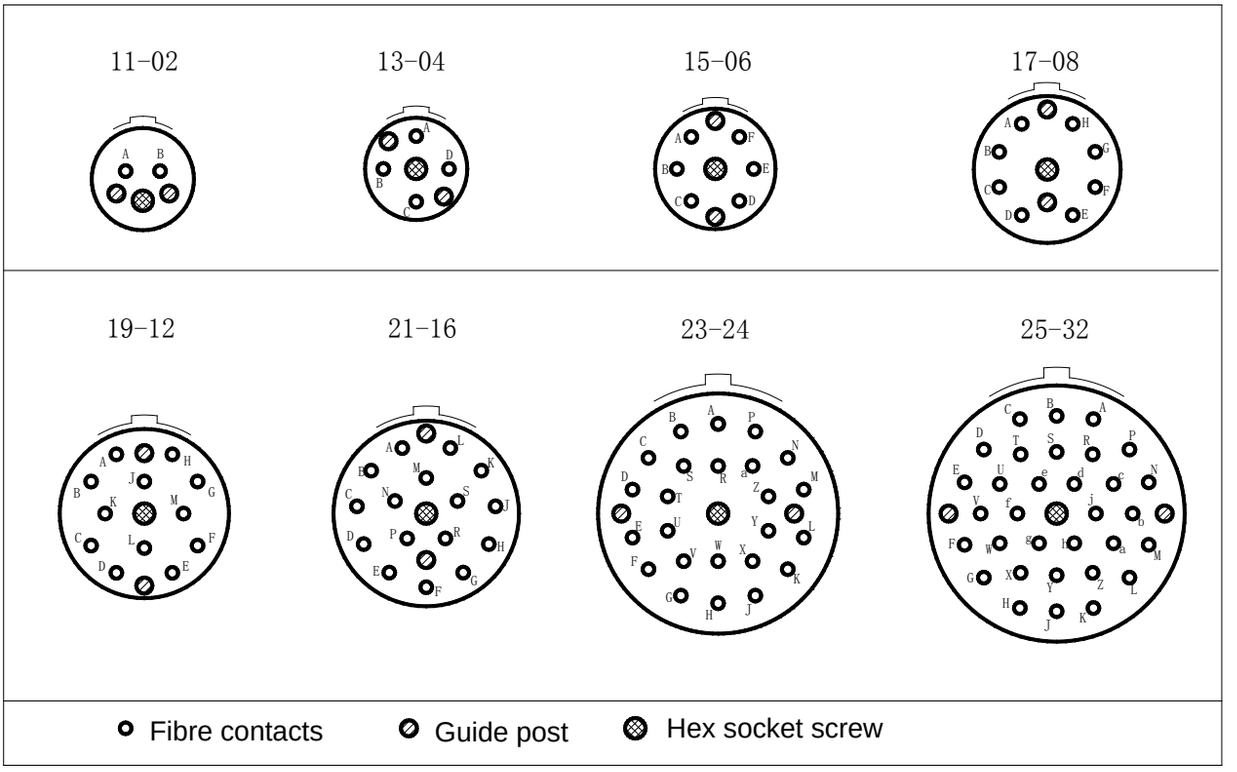
(1) Series designation: J599A8
(2) Shell style: 20 - wall-mount square flange receptacle
24 - nut-fixed receptacle
26 - straight plug
(3) Finish: W - aluminium alloy, army-green cadmium
F - aluminium alloy, electroless nickel
K - stainless steel shell, passivated

(4) Shell size	11	13	15	17	19	21	23	25
Shell size code	B	C	D	E	F	G	H	J

(5) Arrangement: 02, 04, 08 etc. See "J599A8 Arrangements"
(6) Contact type: M - fibre pin, F - fibre socket
(7) Main key/keyway: N - standard; A, B, C, D, E - alternate

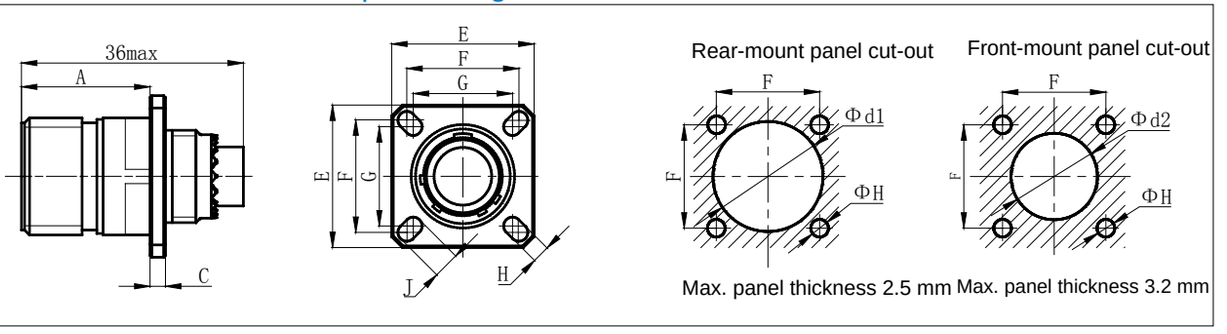
Note: 1) plugs and receptacles are usually ordered as cable assemblies; see 'Ordering Code' for the models;
2) fibre connectors can be FC, SC, ST, LC, DIN, MU, etc.;
3) by default receptacles carry fibre pins and plugs carry fibre sockets.

J599A8 Contact Layouts (receptacle mating-face view)



Outline

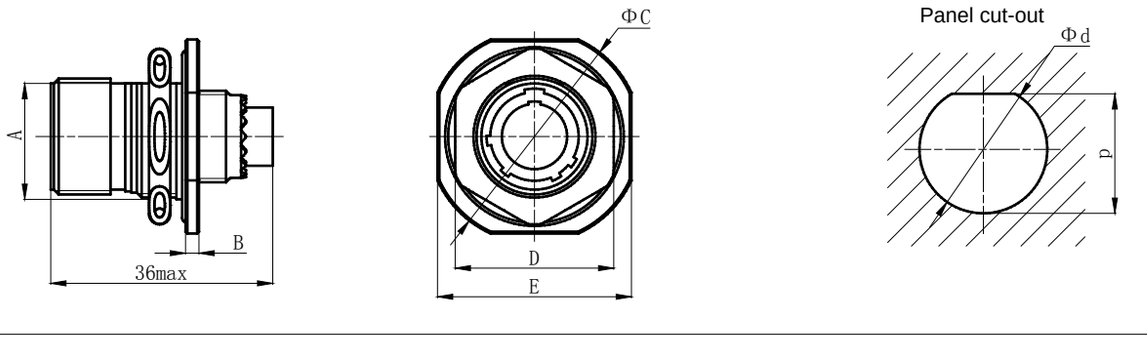
J599A8/20 wall-mount square flange fibre connector



Note: in the figure A is from the mounting face to the receptacle port

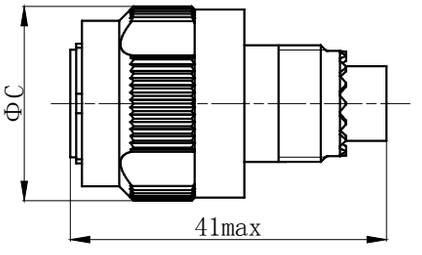
Shell size	Shell size code	Amax	Cmax	E	F	G	H	J	d1	d2
11	B	20.90	2.50	26.20	20.62	18.26	3.25	4.93	20.22	15.88
13	C	20.90	2.50	28.60	23.01	20.62	3.25	4.93	23.42	19.05
15	D	20.90	2.50	31.00	24.61	23.01	3.25	4.39	26.59	23.01
17	E	20.90	2.50	33.30	26.97	24.61	3.25	4.93	30.96	25.81
19	F	20.90	2.50	36.50	29.36	26.97	3.25	4.93	32.94	28.98
21	G	20.10	3.20	39.70	31.75	29.36	3.25	4.93	36.12	32.16
23	H	20.10	3.20	42.90	34.93	31.75	3.91	6.15	39.29	34.93
25	J	20.10	3.20	46.00	38.10	34.93	3.91	6.15	42.47	37.69

J599A8/24 nut-fixed fibre connector



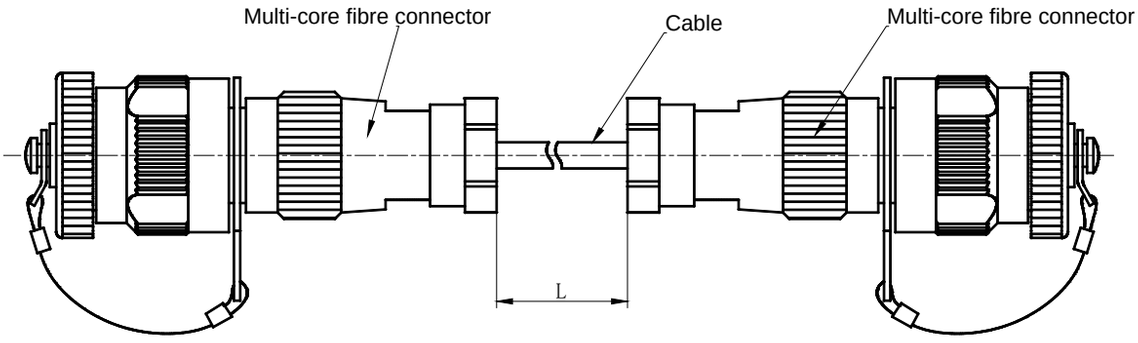
Shell size	Shell size code	A	Bmax	Cmax	Dmax	E	d	p
11	B	19.07	3.20	35.20	27.00	31.80	20.96	19.59
13	C	23.82	3.20	38.40	32.00	34.90	25.65	24.26
15	D	26.97	3.20	41.60	36.00	38.10	28.83	27.56
17	E	30.15	3.20	44.80	37.00	41.30	32.01	30.73
19	F	33.32	3.20	49.50	41.00	46.00	35.18	33.91
21	G	36.50	3.20	52.70	46.00	49.20	38.35	37.08
23	H	39.67	3.20	55.90	50.00	52.40	41.53	40.26
25	J	42.85	3.20	59.00	51.23	55.60	44.70	43.43

J599A8/26 straight- end fibre connector



Shell size	Shell size code	ΦC
11	B	25.00
13	C	29.40
15	D	32.50
17	E	35.70
19	F	38.50
21	G	41.70
23	H	44.90
25	J	48.00

[Cable assembly type I] multi-core cable with J599A8 connectors on both ends.



L in the figure is the customer-specified cable length

Ordering Code

J599A8/26FB02FN – J599A8/26FB02FN – C7*2 – S 300

1. 2. 3. 4. 5.

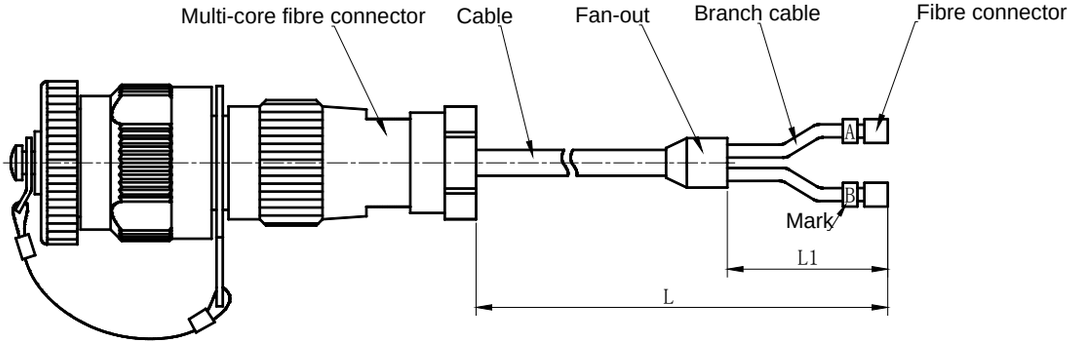
(1) End-1 connector style: see 'J599A8 Connector Model Naming'
(2) End-2 connector style: see 'J599A8 Connector Model Naming'
(3) Cable code: C - cable code letter
7*2 - cable OD (mm) * fibre count
For armoured cable add 'KJ'; the default is field cable
(4) Transmission mode: S - G652 standard single-mode fibre
SI - G657 standard single-mode fibre
M - 62.5/125 multimode fibre
MI - 50/125 multimode fibre
MIV - 50/125 multimode fibre (OM3)
(5) Cable length, ㎜

[Ordering Model Example]

J599A8/26FB02FN- J599A8/26FB02FN-C7*2KJ-S300

Denotes: J599A8 plugs on both ends; dia. 7 two-core armoured cable, single-mode, cable length 300 m.

[Cable assembly type II] one end a J599A8 connector, the other end branch-cable fibre connectors.



L is the total cable length and L1 the branch length; branch marks match the multi-core fibre connector marks

Ordering Code

J599A8/26FB02FN − 2 FC − C7*2 − 2 S 300 / 0.5

1. 2. 3. 4. 5. 6. 7. 8.

(1) End-1 connector style: see 'J599A8 Connector Model Naming'
(2) Number of connectors on end 2: omitted when 1
(3) Connector types: FC, LC, SC, ST, MU, etc.
(4) Cable code: C - cable code letter
7*2 - cable OD (mm) * fibre count
For armoured cable add 'KJ'; the default is field cable
(5) Branch cable diameter, (mm)
(6) Transmission mode: S - G652 standard single-mode fibre
SI - G657 standard single-mode fibre
M - 62.5/125 multimode fibre
MI - 50/125 multimode fibre
MIV - 50/125 multimode fibre (OM3)
(7) Cable length, (m)
(8) Branch cable length, (m)

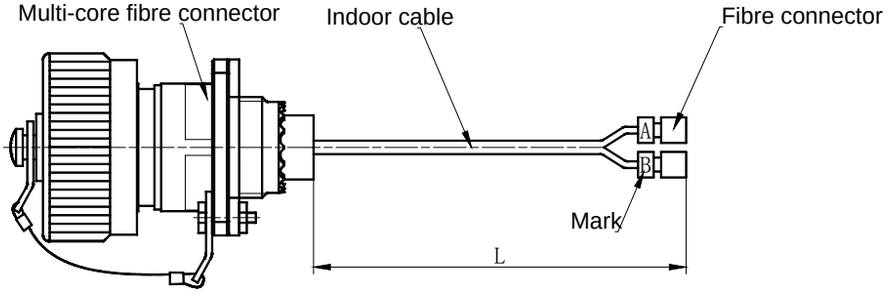
[Ordering Model Example]

J599A8/26FB02FN−2FC−C7*2−2S300/0.15

Denotes: one end a J599A8 plug, the other two FC connectors; dia. 7 two-core field cable, single-mode, branch dia. 2, cable length 300 m, branch length 0.15 m.

Note: for long cables, cable reel stands (portable or trolley types) are available.

[Cable assembly type III] one end a J599A8 connector, the other a fibre connector; indoor single-core cable.



L is the customer-specified cable length; branch marks match those of the multi-core fibre connector

Ordering Code

J599A8/20FB02MN − 2 FC − S 2 − L3

1. 2. 3. 4. 5. 6.

(1) End-1 connector style: see 'J599A8 Connector Model Naming'
(2) Number of connectors on end 2: omitted when 1
(3) Connector types: FC, LC, SC, ST, MU, etc.
(4) Transmission mode: S - G652 standard single-mode fibre
SI - G657 standard single-mode fibre
M - 62.5/125 multimode fibre
MI - 50/125 multimode fibre
MIV - 50/125 multimode fibre (OM3)
(5) Cable diameter: (mm)
(6) Cable length: L - length code, (m)

[Ordering Model Example]

J599A8/20FB02MN-2FC-S2-L3

Denotes: one end a J599A8 receptacle, the other two FC connectors; dia. 2 indoor cable, single-mode, cable length 3 m.