J599-A8 Fiber Optic Connector

Product Description

J599/A8 series fiber optic connectors use three threaded quick connection, while using five keys positioning, with blind and anti-misplaced and anti-vibration function, the connector is made of stainless steel 316L, high density of contact parts, anti-electromagnetic shielding function, fiber optic components can be removed, convenient field installation, connector loss is small, high reliability; with waterproof, dustproof, corrosion resistance and other characteristics.

Features

- Products comply with GJB599A (MIL-DTL-38999)IIIseries interface specifications, performance in line with ARINC801 specifications
- Products connect optical links with low loss, high reliability, waterproof, dustproof and corrosion resistance
- Outer shell using different materials can meet a variety of harsh environmental requirements as well as electromagnetic shielding requirements
- Products adopt 5 keys positioning, anti-blind and wrong insertion, and also have excellent anti-vibration performance
- Adopts three-head thread for quick connection and has anti-loosening structure
- With single core, 2 core, 4 core, 6 core, 8 core, 12 core and other specifications for selection

Applications

- Active or passive equipment terminals
- Marine, shipboard communication systems and equipment
- Aviation, aerospace, and other optical and electrical systems and equipment
- Other military, weapons systems and equipment areas

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Technical parameter

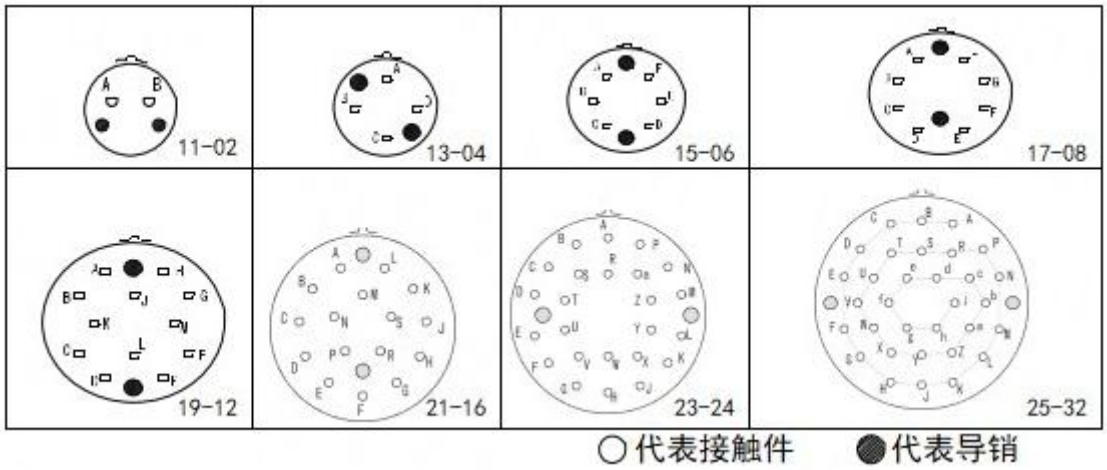
Categories	Indicator requirements
Insertion loss	≦0.60dB
Reciprocity	≦0.2dB
Operating temperature	-55℃~85℃
Vibration	Frequency 10Hz~2000Hz，Power skin density 0.4G2/Hz，Root mean square value of acceleration 23.1；
Impact	Peak acceleration 2960m/s2，Duration 3ms，Rate of change of speed 5.61m/s；
Mechanical life	1000 times
Tensile strength	≧68N(ø2mm optic fiber cable），≧800N（Φ5.0mm or more multi-core fiber optic cable）
Categories	Indicator requirements
Insertion loss	≦0.60dB

Model Naming

Socket/plug naming

Series Model	J599/A8	20	W	C	4	B1	N	-	F 1
Housing Model	20—Socket 26—Plug								
Coating	K--Stainless steel surface passivation process housing W--Military green aluminum alloy cadmium plated F--Aluminum alloy chemical nickel plating								
Housing number	11 13 15 17 19 21 23 25 B C D E F G H J								
Contact arrangement	See "Contact Point Arrangement Table" for details								
Type of contact parts	A1-Fiber optic inserts B1-Fiber optic jacks								
Keying	N--Normal Keying A、B、C、D、E--Variable key								
Fiber optic cable type	Default - no pigtailing, single-core fiber optic cable F2--Vertical tailing, adapted to field multi-core fiber optic cable F4--Vertical pigtailing for single-core fiber optic cable XX--Other Customization								

Table: Contact point arrangement

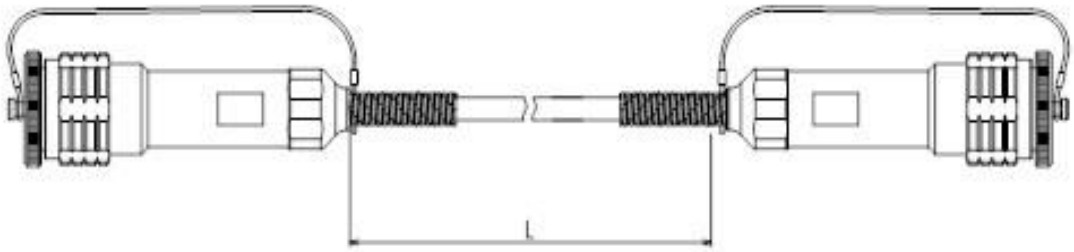


Adapter socket naming

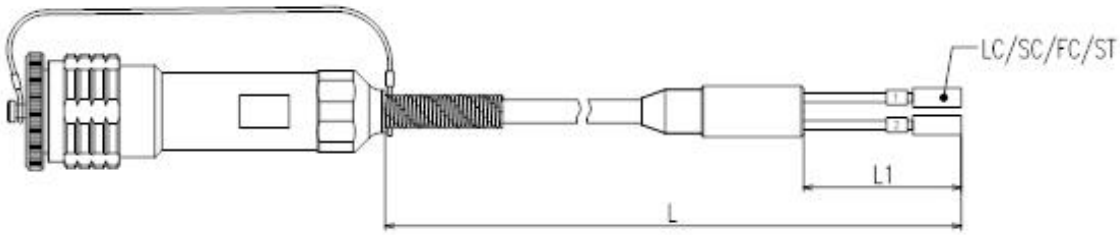
Series Model	J599/A8	24	W	C	4	C1	N	-	S
Housing Model	24–Square plate socket 26–Nut tightening plug								
Coating	K–Stainless steel surface passivation process housing W–Military green aluminum alloy cadmium plated F–Chemical nickel plating of aluminum alloy								
Housing number	11 13 15 17 19 21 23 25 B C D E F G H J								
Contact arrangement	See "Contact Point Arrangement Table" for details								
Type of contact parts	C1-Through-wall inserts								
Keying	N–Normal Keying A、B、C、D、E–Variable key								
Fiber optic cable type	S–Single-mode SMF_28e 9/125 M–Multimode 62.5/125 MI–Multimode 50/125 MIV–Multimode 50/125 OM3								

Examples Of Common Connection Schemes

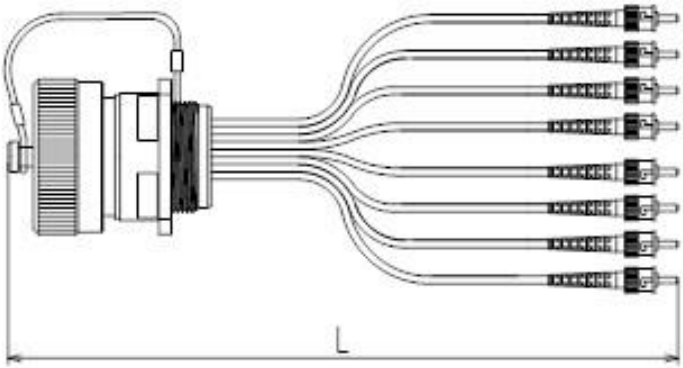
Connection SolutionsI



Connection SolutionsII



Connection SolutionsIII



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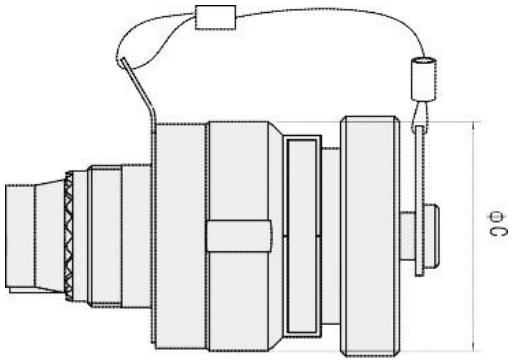
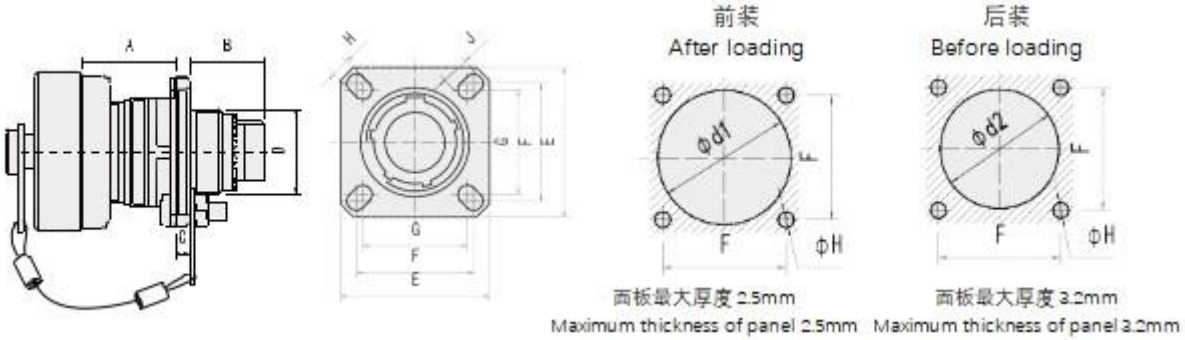
Dimension

Plug assembly



Housing number	A （MAX)	B Thread
A (09)	21.80	M12×1-6g
B (11)	25.00	M15×1-6g
C (13)	29.40	M18×1-6g
D (15)	32.40	M22×1-6g
E (17)	35.60	M25×1-6g
F (19)	38.50	M28×1-6g
G (21)	41.70	M31×1-6g
H (23)	44.90	M34×1-6g
J （25)	48.00	M37×1-6g

Receptacle assembly



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Housing number	A (MAX)	B (MAX)	C (MAX)	D Thread	E	F	G	H	J	d1 (MIN)	d2 (MIN)
A (09)	20.90	10.60	2.50	M12×1-6g	23.80	18.26	15.09	3.25	5.49	16.66	13.11
B (11)	20.90	10.60	2.50	M15×1-6g	26.20	20.62	18.26	3.25	4.93	20.22	15.88
C (13)	20.90	10.60	2.50	M18×1-6g	28.60	23.01	20.62	3.25	4.93	23.42	19.05
D (15)	20.90	10.60	2.50	M22×1-6g	31.00	24.61	23.01	3.25	4.93	26.59	23.01
E (17)	20.90	10.60	2.50	M25×1-6g	33.30	26.97	24.61	3.25	4.93	30.96	25.81
F (19)	20.90	10.60	2.50	M28×1-6g	36.50	29.36	26.97	3.25	4.93	32.94	28.98
G (21)	20.10	11.40	3.20	M31×1-6g	39.70	31.75	29.36	3.25	4.93	36.12	32.16
H (23)	20.10	11.40	3.20	M34×1-6g	42.90	34.93	31.75	3.91	6.15	39.29	34.93
J (25)	20.10	11.40	3.20	M37×1-6g	46.00	38.10	34.93	3.91	6.15	42.47	37.69

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