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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Features

- J599 series III shell, five-key keying, blind-matable;
- Good resistance to vibration, shock and water;
- Multi-stage guiding for precise alignment;
- Integrates one or more 12- or 24-way MT contacts.

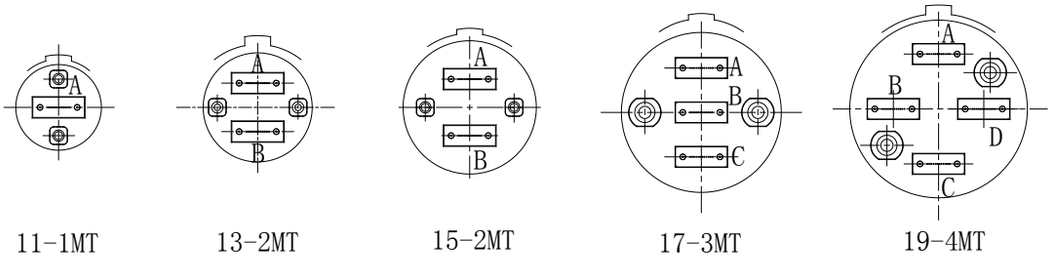


Technical Characteristics

- Insertion loss: <=1.0 dB (per mated pair)
- Operating temperature: -40 °C to +85 °C
- Mechanical life: 500 cycles
- Temperature shock: -55 °C to +85 °C
- Salt fog: 96 h
- Random vibration: 0.2 G 2/Hz (GJB1217 method 2005, test condition V, letter E)
- Shock: half-sine, peak acceleration 980 m/s 2, duration 6 ms

Ordering Code

- J599 MT connector layouts (mating-face view of type 20/24 receptacles)



J599 / 26 F F 4MT S N

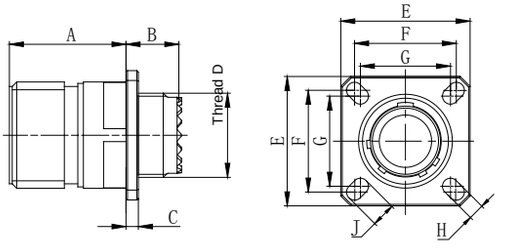
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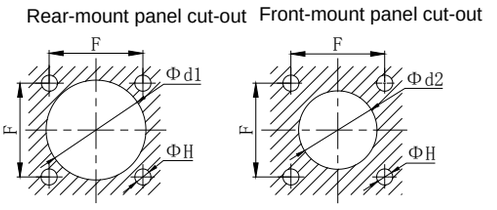
(1) Series designation;
(2) Shell style: 20 - wall-mount square flange receptacle;
24 - nut-fixed receptacle;
26 - straight plug;
(3) Finish: W - aluminium alloy, army-green cadmium;
F - aluminium alloy, electroless nickel;
K - stainless steel shell, passivated;
(4) Shell size: 11, 13, 15, 17, 19;
Shell size code: B, C, D, E, F;
(5) Contact arrangement: see the J599 layouts;
(6) Contact type: P - MT male; S - MT female;
(7) Key: N - standard; A, B, C, D, E - alternate.

Note: 1) MT contacts loaded in plugs or receptacles are spring-loaded;
2) if a non-spring MT (e.g. a pigtail of an opto-electronic module) is loaded in a J599 receptacle, append the design serial number to the receptacle model. E.g. the special size-13 receptacle is J599/20FC2MTPN01.

Mounting Dimensions

■ J599/20 Receptacle

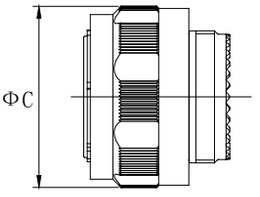




Max. panel thickness 2.5 mm Max. panel thickness 3.2 mm

Shell size	A max	B max	C max	Thread D	E	F	G	H	J	d1	d2
No. 11	20.90	10.60	2.50	M15×1-6g	26.20	20.62	18.26	3.25	4.93	20.22	15.88
No. 13	20.90	10.60	2.50	M18×1-6g	28.60	23.01	20.62	3.25	4.93	23.42	19.05
No. 15	20.90	10.60	2.50	M22×1-6g	31.00	24.61	23.01	3.25	4.39	26.59	23.01
No. 19	20.90	10.60	2.50	M28×1-6g	36.50	29.36	26.97	3.25	4.93	32.94	28.98

■ J599/26 Plug



Shell size	No. 11	No. 13	No. 15	No. 19
Φ C	25.0	29.4	32.5	38.5

Ordering Code, Single-End J599 Cable Assemblies

■ MT Jumper on One End

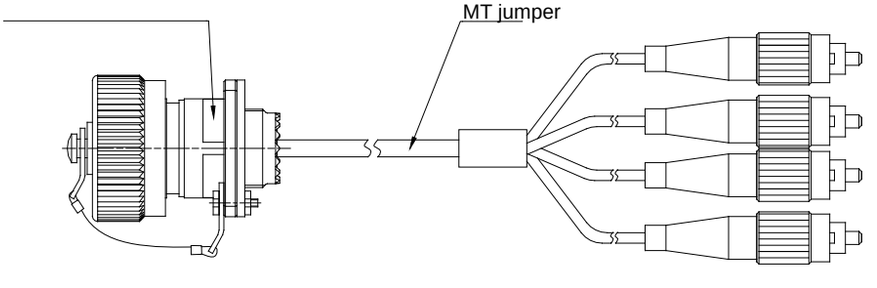
J599/20FF4MTPN 4 * MTP/12FC-2M1000/500A

1. 2. 3.

(1) J599 connector style: see '2.1 connector model naming rules';
(2) Number of MT jumpers: omitted when 1;
(3) MT jumper style: see the 'MT jumper ordering code'.

[Ordering Model Example]

J599/20FF4MTPN-4*MTP/12FC-2M1000/500A



means: a J599 series 19-4MT receptacle fitted with 4 MT jumpers, each jumper having one 12-way MT with guide pins at one end, and a 12-way FC on the other, for 62.5/125 multimode fibre; jumper length 1000 mm, fan-out 500 mm, branch cable dia. 2 mm, design serial number A.

Ordering Code, Single-End J599 Cable Assemblies

■ One End with Branch-Cable Fibre Connectors

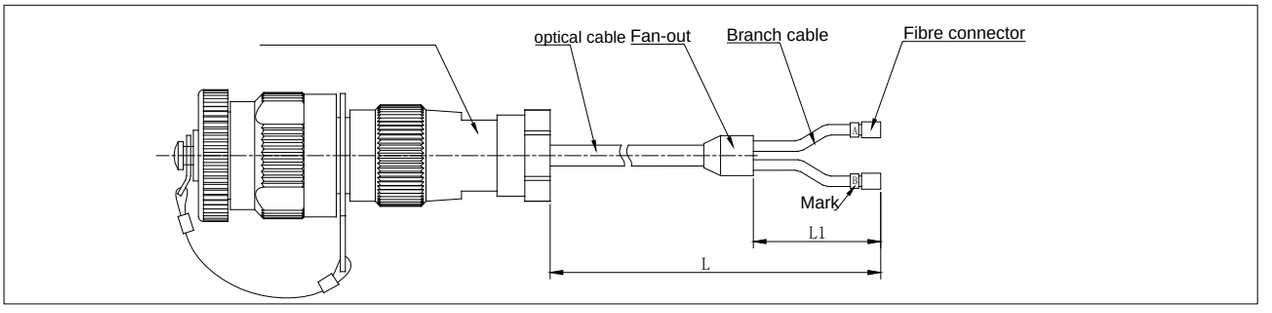
J599/26FB1MTSN - 12 FC - C7*12 - 2 M 1000 / 500 A

1. 2. 3. 4. 5. 6. 7. 8. 9.

(1) End-1 J599 connector style: see '1.2 connector model naming rules';
(2) Number of fibre connectors on end 2: omitted when 1;
(3) Fibre connector types: FC, LC, ST, SC, MU, etc.;
(4) Cable code: C - cable code letter
7*12 - cable OD (mm) * fibre count
For armoured cable, add 'KJ' after it; by default this denotes an optical cable
(5) Branch cable diameter, in millimetres (mm)
0.9 - branch cable dia. 0.9 mm;
2 - branch cable dia. 2 mm;
(6) Transmission mode:
M - 62.5/125 multimode fibre;
S - G652 standard single-mode fibre;
C - 50/125 multimode fibre (OM3);
(7) Cable length, in millimetres (mm);
(8) Branch cable length, in millimetres (mm); omitted when both ends are MT or MPO ports;
(9) Design serial number: for flipped or omitted contact positions; letters A, B, C, ...

[Ordering Model Example]

J599/26FB1MTSN-12FC-C7*12-2M1000/500A



Denotes: one end is a J599 series 11-1MT layout nickel-plated plug with MT contacts; the other end is an FC/PC standard connector, carrying 12 channels; dia. 7 mm multimode (62.5/125) cable, total length 1 m, branch length 0.5 m, branch cable dia. 2 mm, design serial number A.

Ordering Code, Double-End J599 Cable Assemblies

J599/26FC2MTSN - J599/26FC2MTSN - C7*12 - M 1000 A

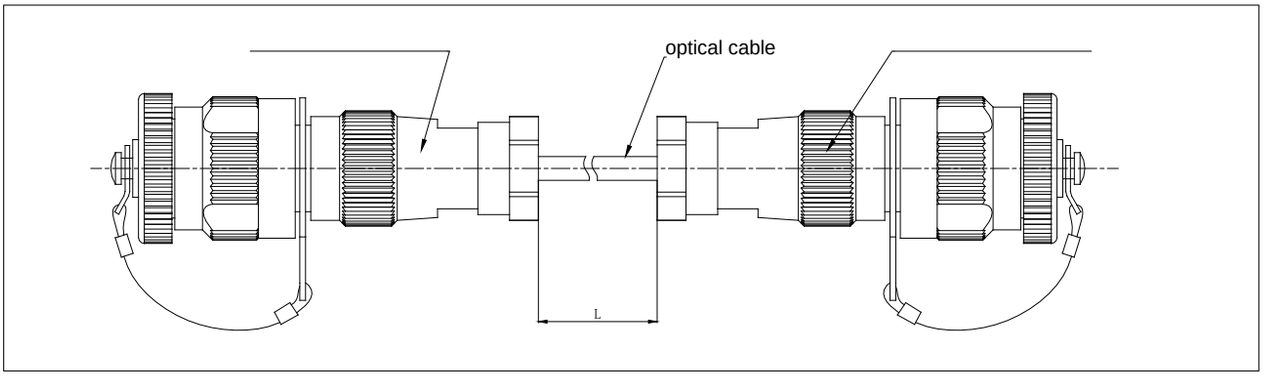
1. 2. 3. 4. 5. 6.

(1) End-1 J599 connector style: see '1.2 connector model naming rules';
(2) End-2 J599 connector style: see '1.2 connector model naming rules';
(3) Cable code: C - cable code letter;
7*24 - cable OD (mm) * fibre count;
For armoured cable, add 'KJ' after it; by default this denotes an optical cable
(4) Transmission mode:
M - 62.5/125 multimode fibre;
S - G652 standard single-mode fibre;
C - 50/125 multimode fibre (OM3);
(5) Cable length, in millimetres (mm);
(6) Design serial number: for flipped positions or cable type; letters A, B, C, ...

Ordering Code, Double-End J599 Cable Assemblies

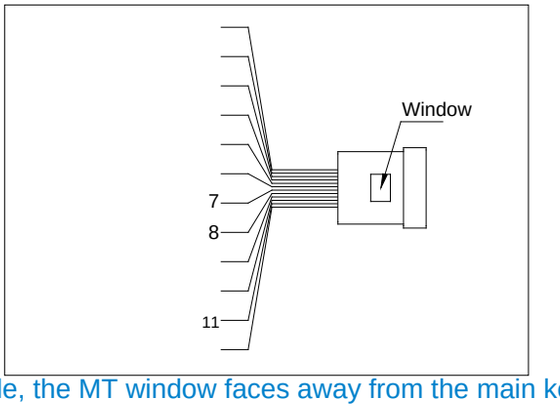
[Ordering Model Example]

J599/26FC2MTSN-J599/26FC2M *24-M4000A



Denotes: both ends are J599 series 13-2MT layout nickel-plated plugs with MT contacts (with guide posts), carrying 24 channels; dia. 7 mm multimode (62.5/125) cable, total length 4 m, design serial number A.

■ MT Contact Positions and Mounting



Note: when an MT connector is loaded into a J599 receptacle, the MT window faces away from the main key.