Rectangular Multi-connector with ⌀10, ⌀12 One-touch Fittings
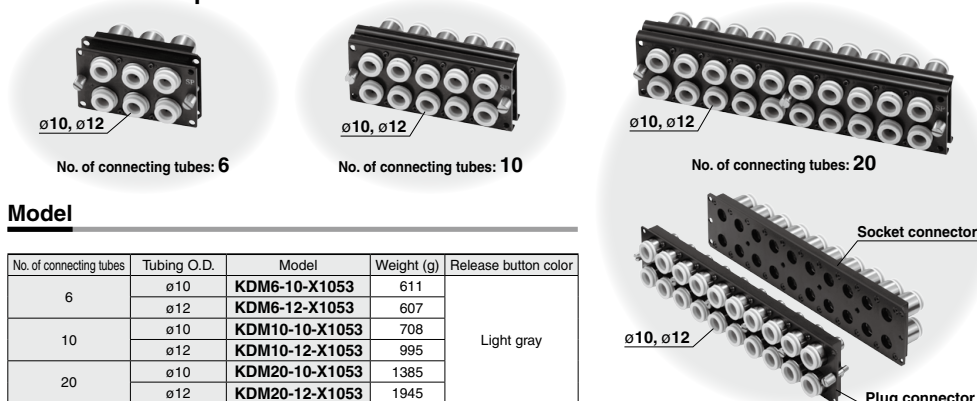
RoHS

⌀**10**, ⌀**12** One-touch fittings added to the multi-connector.

■ **Multiple pipes (6, 10, 20 tubes) can be collectively connected/disconnected in one-touch operation.**

⌀10, ⌀12

No. of connecting tubes: 6

⌀10, ⌀12

No. of connecting tubes: 10

⌀10, ⌀12

No. of connecting tubes: 20

Socket connector

⌀10, ⌀12

Plug connector

Model

No. of connecting tubes	Tubing O.D.	Model	Weight (g)	Release button color
6	⌀10	**KDM6-10-X1053**	611	
6	⌀12	**KDM6-12-X1053**	607	
10	⌀10	**KDM10-10-X1053**	708	Light gray
10	⌀12	**KDM10-12-X1053**	995	
20	⌀10	**KDM20-10-X1053**	1385	
20	⌀12	**KDM20-12-X1053**	1945	

Applicable Tubing

Tubing material	Nylon, Soft nylon, Polyurethane
Tubing O.D.	**⌀10, ⌀12**

Specifications

Fluid	Air
Operating pressure range [Note]	0 to 1 MPa
Proof pressure	1.5 MPa
Ambient and fluid temperature	−5 to 60°C (No freezing)

Note) Please avoid using in a vacuum holding application such as a leak tester, since there is leakage.

Series Variations

	Rectangular Multi-connector/KDM			Multi-connector/DMK		
	No. of connecting tubes			**No. of connecting tubes**		
	6	**10**	**20**	**6**	**12**	
⌀2	●					12-E596
⌀3.2		●	●	●	●	
⌀4		●	●	●	●	
⌀6		●	●			Best Pneumatics 6
⌀8		●	●			
New ⌀10	★		★			
New ⌀12	★	★	★			

KDM-X1053
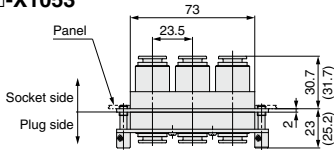
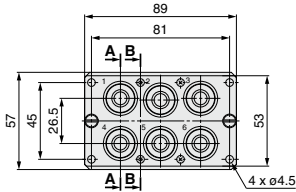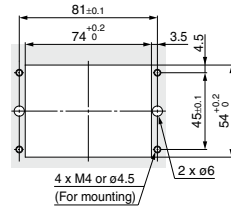Fittings
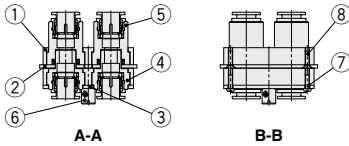
KQ2

KDM6

KDM

SMC

KDM-X1053

Dimensions/Construction

KDM6-□-X1053
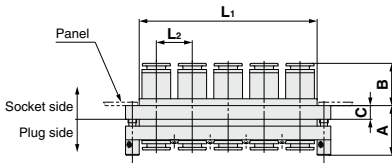

( ): Dimensions for **KDM6-12-X1053**

Plug side

A-A　　**B-B**

Panel mounting hole

Component Parts

No.	Description		Material	Quantity	Note
1	**Case**	**6 tubes**	A6063	2	Black anodized
2	**Plate (A)**	**6 tubes**	SPCC	1	Black zinc chromated
3	**Plate (B)**	**6 tubes**	SPCC	1	Black zinc chromated
4	**Plug**		—	6	Electroless nickel plating
5	**Socket**		—	6	Electroless nickel plating
6	**Clamp bolt**		C3604	2	Electroless nickel plating
7	**Cross recessed round head screw**		SWRM	4	M2.5 x 8 Black zinc chromated
8	**Cross recessed countersunk head screw**		SWRM	4	M2.5 x 8 Black zinc chromated

KDM10-□-X1053

Plug side

Y-Y　　**Y₁-Y₁**
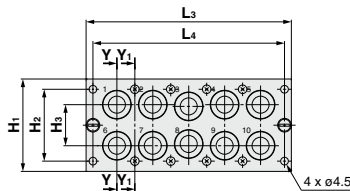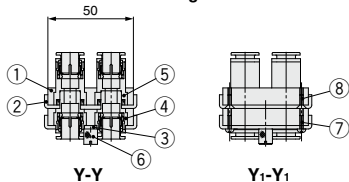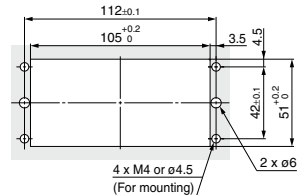
Tubing O.D.: ø10

Tubing O.D.: ø12
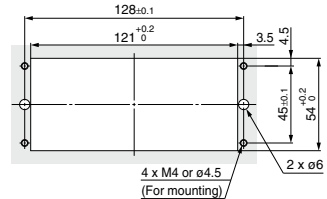
Panel mounting hole

Component Parts

No.	Description		Material	Quantity	Note
1	**Case**	**10 tubes**	A6063	2	Black anodized
2	**Plate (A)**	**10 tubes**	SPCC	1	Black zinc chromated
3	**Plate (B)**	**10 tubes**	SPCC	1	Black zinc chromated
4	**Plug**		—	10	Electroless nickel plating
5	**Socket**		—	10	Electroless nickel plating
6	**Clamp bolt**		C3604	2	Electroless nickel plating
7	**Cross recessed round head screw**		SWRM	8	M2.5 x 8 Black zinc chromated
8	**Cross recessed countersunk head screw**		SWRM	8	M2.5 x 8 Black zinc chromated

Model	A	B	C	L₁	L₂	L₃	L₄	H₁	H₂	H₃
KDM10-10-X1053	29	24.7	8	104	21	120	112	54	42	24
KDM10-12-X1053	25.2	31.7	2	120	23.5	136	128	57	45	26.5

⊘SMC

Dimensions/Construction

KDM20-□-X1053

Panel
Socket side
Plug side

Plug side

Tubing O.D.: ø10

216±0.1
210 +0.2/0
3
4.5
42±0.1
51 +0.2/0
4 x M4 or ø4.5
(For mounting)
2 x ø6

Tubing O.D.: ø12

245.5±0.1
238.5 +0.2/0
3.5
4.5
45±0.1
54 +0.2/0
4 x M4 or ø4.5
(For mounting)
2 x ø6

Panel mounting hole

4 x ø4.5

Y-Y   **Y₁-Y₁**
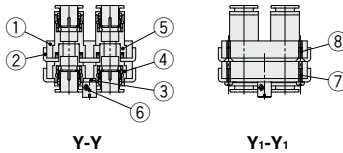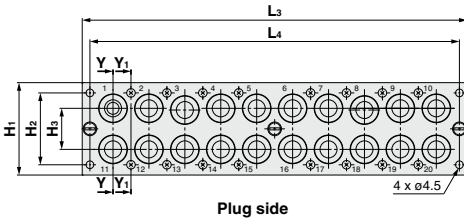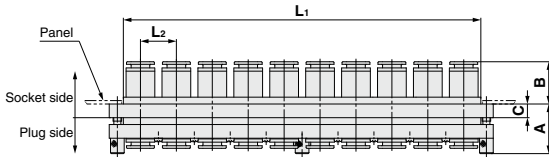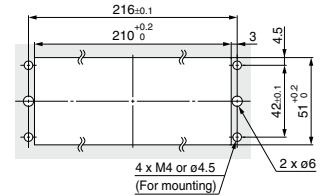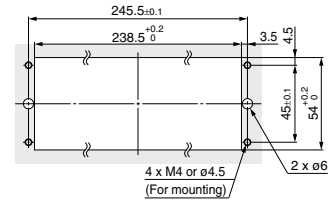
Model	A	B	C	L₁	L₂	L₃	L₄	H₁	H₂	H₃
KDM20-10-X1053	29	24.7	8	209	21	225	216	54.5	42	24
KDM20-12-X1053	25.5	31.7	2	237.5	23.5	253.5	245.5	57	45	26.5

Component Parts

No.	Description		Material	Quantity	Note
1	Case	20 tubes	A6063	2	Black anodized
2	Plate (A)	20 tubes	SPCC	1	Black zinc chromated
3	Plate (B)	20 tubes	SPCC	1	Black zinc chromated
4	Plug		—	20	Electroless nickel plating
5	Socket		—	20	Electroless nickel plating
6	Clamp bolt		C3604	3	Electroless nickel plating
7	Cross recessed round head screw		SWRM	16	M2.5 x 8 Black zinc chromated
8	Cross recessed countersunk head screw		SWRM	16	M2.5 x 8 Black zinc chromated

⚠Caution

1. Socket case fixing bolts (M4) and the hexagon nuts for mounting to the panel should be provided by the customer.

M4 bolt (4 pcs.)
Panel
Socket side
Hexagon nut (4 pcs.)
Plug side
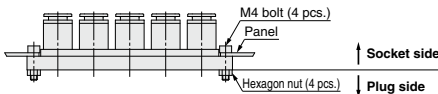
2. A flat blade screwdriver is necessary when tightening the clamp bolt after connecting the plug case to the socket case.

Flat blade screwdriver
Irregular faces for engagement
Clamp bolt

Fittings
KQ2
KDM6
KDM

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