

JBX FD 1 G 02 M S S D P M

Connector Series

Styles

Plugs - FC, FD, FF, FM, FN

Receptacles - EA, ED, EP, ER, EZ, PC, SA, SR

Shell Sizes

0, 1, 2, 3

Contact Souriau for additional shell sizes

Shell Keyings

G, J, A, B - standard

(Alternate keying available upon request)

Contact Layouts

Size00 - 04

Size 0 - 02, 03, 04, 05, 06, 07, 09

Size 1 - 02, 03, 04, 05, 06, 07, 08, 10, 12

Size 2 - 02, 03, 04, 05, 06, 07, 08, 10, 12, 16, 18, 19

Size 3 - 03, 04, 07, 10, 14, 18, 22, 30

Options

M - Backnut for protective boot

R - Red Dot (FC, FD, PC, SR, ER, ED, EZ)

Contact Size

P=0.5mm Contact only

S=All other contact sizes except 0.5mm

Obligatory

Shell Platings

N - Brass shell with Chrome over Nickel Plate

S - Brass shell with Black Plating

Contact Terminations

C - Crimp

S - Solder

P* - Straight PCB

Q* - R/A PCB

Contact Types

M - Male

F - Female

* Receptacles with Female contacts Only

Technical characteristics

Material and treatment		UL recognized				
Component	Material	Standard		Surface treatment (µm)		
		ISO	ASTM	Cr	Ni	Au
Outer shell and collet nut	Brass	CuZn40Pb3	C38500/C360	0.1 - 0.6	5 - 8	-
Latching sleeve	Brass	CuZn40Pb3	C38500/C360	-	5 - 8	-
Shielding ring	Brass	CuZn40Pb3	C38500/C360	-	3 - 7	-
Nut	Brass	CuZn40Pb3	C38500/C360	-	5 - 8	-
Half bushes	Brass	CuZn40Pb3	C38500/C360	-	5 - 8	-
Socket contact (1)	Cupro-nickel	CuNi1Pb1P	CDAC19150	-	3 - 5	0.5
Pin contact (1)	Brass	CuZn35Pb2	C35300/C360	-	3 - 5	0.5
Clip	Beryllium copper	CuBe1,9	C17200/C360	-	-	-

(1) Gold thickness as per MIL-G-45204C type 1, class 00.

Component	Material	Working Temperature	
Insert	PEEK + 15%GF	- 50°C + 250°C	- 58°F + 482°F
Collet	PA 6/6 + MoS2	- 55°C + 125°C	- 67°F + 257°F

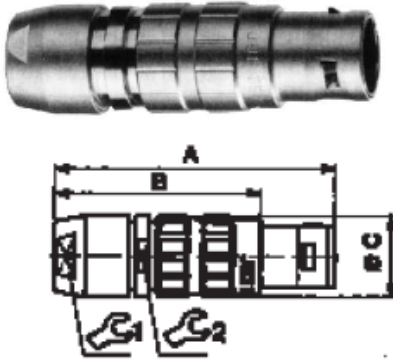
Mechanical and climatics

Characteristics	Values	Mil Standard	Method	IEC Standard
Endurance	> 1000 cycles (except for 0.7 mm crimp contacts for which endurance is limited to 500 cycles)	MIL-STD 1344A	2016.1	IEC60512-5-9a
Shock	50g, duration 6 ms; contact Ø 0.7 mm and 0.9mm 100 g, duration 6 ms; contact Ø 1.3 mm - 1.6 mm and 2 mm	MIL-STD 1344A	2004.1	
Vibrations	>10 to 2000 Hz γ = 15g, contact Ø 0.7 mm and 0.9mm γ= 20g, contact Ø 1.3 mm - 1.6 mm and 2mm	MIL-STD 1344A	2005.1	
Protection Index	IP 40			IEC60529
Operating Temperature	with plastic collets } - 55°C + 125°C - 67°F + 257°F with optional metal collets } - 55°C + 200°C - 67°F + 392°F (only on request, consult Souriau)			

Plug Caps

Part number	Shell Size
JBX BF00	00
JBX BF0	0
JBX BF1	1
JBX BF2	2
JBX BF3	3

FD : Straight



Size	00	0	1	2	3
A	31	39	45	52	62
B	23	29	34	40	47
Ø C	7	10	12	15	18

Key	Single Key Way	Dual Key Way			
	G	J		A	B*
		sizes 0 - 1	sizes 2 - 3		
Keying angle	0°	45°	37.5°	30°	60°
Plug					

Collet number	Cable diameter				
	Shell size 00	Shell size 0	Shell size 1	Shell size 2	Shell size 3
1	1.1 - 1.9	1.5 - 2.5	2.0 - 2.5	3.5 - 4.7	4.9 - 6
2	2 - 2.8	2.6 - 3.5	2.6 - 3.5	4.8 - 5.7	6.1 - 7.2
3	2.9 - 3.5	3.6 - 4.5	3.6 - 4.5	5.8 - 6.7	7.3 - 8.4
4	-	4.6 - 5.5	4.6 - 5.5	6.8 - 7.7	8.5 - 9.6
5	-	-	5.6 - 6.6	7.8 - 8.7	9.7 - 10.8
6	-	-	6.7 - 7.5	8.8 - 9.7	10.9 - 12.0

Part number	Shell size	Dimensions			
		Ø A	L	Ø Cable	
				min	max
JBX 00 MPN	00	1.5	15	1	3.5
JBX 0 MP*	0	2.2	20	1.5	5.5
JBX 1 MP*	1	2.6	25	2	7.5
JBX 2 MP*	2	4	30	3.5	9.7
JBX 3 MP*	3	5	35	4.9	12

Coupling torques

Tools (jaw dimensions)	Wrench Size					Advised torques* in Nm				
Shell Size	00	0	1	2	3	00	0	1	2	3
	7	11	14	17	21	0.5	0.7	1.3	1.7	2
	6	8	10	13	15	0.7	0.8	1	1.5	2
	6	9	11	14	16	0.7	0.8	1	1.5	2
	-	10	12	15	17	-	0.4 to 0.5	0.5 to 0.7		
	-	10	13	17	20	0.5	0.7	1.3	1.7	2
	-	9	13	15	-	-	-	-	-	-

Metal Collets

Shell Size	Cable diameter
0	19, 25, 35, 45, 55, 57
1	25, 35, 45, 55, 66, 75, 77
2	47, 57, 67, 77, 87, 97
3	60, 72, 84, 96, 108, 120

For contact
PIN LAYOUTS
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For
PCB LAYOUTS
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DATA SHEET

JBXFD _____

REV ____ A ____

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