

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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SOURIAU



Mixed Power and Signal Waterproof Connector

The JDX mixed power and signal connector offers the ability to integrate 2 or 3 power contacts with 6 to 8 signal contacts in one connector housing

Mixed power & signal layout

/

Single Connector Solution for simplified cabling

Secure for Outdoor applications



Waterproof, IP68 (Mated and Unmated)

Quick Release Breakaway Coupler



Disengages at specified pull force levels for safe quick disconnects

Rugged



Robust to withstand Harshest Environments

Flexible



3 Layouts Available for multiple applications

Confirmed Mating



Audible, Tactile, Visual

Space Savings



Small footprint, allows access in tight applications

Shielding



360° EMI Shielding





Technical Information

Materials

- · Shell: Brass or Aluminum
- Shell Plating: Black Chrome over Nickel
- Insulator: PEEK with 15% Glass filled
- · Contacts: Brass
- Contacts Plating: Gold over Nickel
- Potting Seal: Epoxy Potting Compound

Electrical

- Current Rating: see chart on Page 3 & 4
- Contact Resistance: see chart on Page 4
- Insulation Resistance: $500 \text{ M}\Omega$
- Dielectric Withstanding Voltage: see chart on Page 4
- Operating Voltage: see chart on Page 4

Description

- Mixed power & signal rugged sealed connector for high vibration and shock environments for both indoor and outdoor applications
- · Waterproof, IP68 (Mated and Unmated)
- Shell available in Brass and Lightweight Aluminum
- · Available in Shell Size 2
- 3 layouts for multiple applications
- -2P + 6S (2 Power + 6 Signal)
- 2P + 8S (2 Power + 8 Signal)
- 3P + 6S (3 Power + 6 Signal)

Applications

 SOURIAU Sealed connectors can be used in a variety of markets including Industrial, Instrumentation, Medical, Mil-Aero, Broadcast Entertainment and Telecommunications.

Environmental

- Operating Temperature: -40°C to +125°C
- Salt Spray Resistance: 96 hours
- Sealing: IP68 (Mated & Unmated)
- RoHS Compliant

Mechanical

• Endurance:

Shell: 2500 mating/unmating Contacts: 1000 mating/unmating

- Vibration: 10 2000 HZ (per EIA 364)
- Shock: 50g duration 6ms (per MIL STD 1344A)
- Autoclavable

Technical Information

2P + 6S

Connector rating:

- Power Contact: 26A at 30°C T-Rise
- · Signal Contact: 2A

Connector layout:



2P + 8S

Connector rating:

- Power Contact: 26A at 30°C T-Rise
- Signal Contact: 2A

Connector layout:



3P + 6S

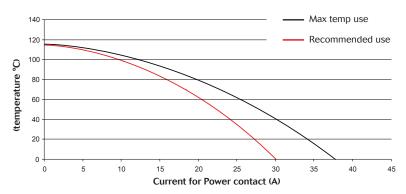
Connector rating:

- Power Contact: 17A at 30°C T-Rise
- · Signal Contact: 2A

Connector layout:

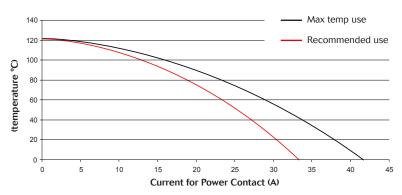


Power Derating curve - Signal Contact Fixed at 2A



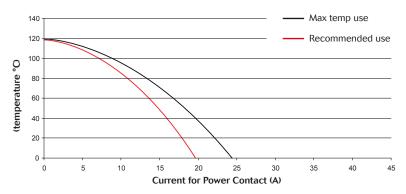
Signal Contact (cable awg 26) is powered at 2A Power Contact (cable awg 16): 0 to 35 A

Power Derating curve - Signal Contact Fixed at 2A



Signal Contact (cable awg 26) is powered at 2A, Power Contact (cable awg 18): 0 to 40 A

Power Derating curve - Signal Contact Fixed at 2A



Signal Contact (cable awg 26) is powered at 2A, Power Contact (cable awg 20): 0 to 25 A

Contact Layouts & Technical Information

Shell size 2	2P+6S	2P+8S	3P+6S		
Male Insulator Wire Side		000			
Solder	S	S	S		
PCB Straight Tails	Р	Р	Р		
Contact Diameter (mm)					
Power contact diameter (mm)	2.0	1.6	1.3		
Signal contact diameter (mm)	0.7	0.7	0.7		
Solder Wire Max. AWG					
Power Solder wire Max. AWG	16	18	20		
Signal Solder wire Max. AWG	26	26	26		
Current Rating					
Power current rating	See	Derating Curve on pag	je 3		
Signal current rating	See Derating Curve on page 3				
Contact Resistance (mΩ)					
Power contact resistance (mΩ)	2.5	2.5	3		
Signal contact resistance (mΩ)	5	5	5		
Dielectric Withstanding Voltage	1500	1500	1500		
Operating Voltage (Vdc/Vrms)	700/500	700/500	700/500		

Contacts

Solder contacts



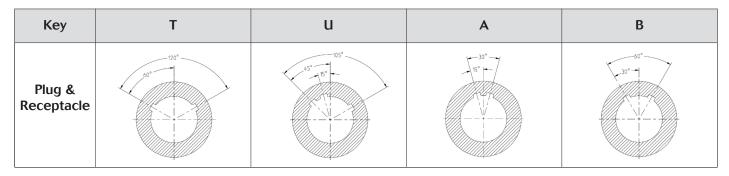


Con	tacts	u	sable Cable	s	Current R	lating* (A)	Contact Resistance (mΩ)		Fredurence	
ØС	ØF	Core section (mm²)		A\A/C	Power	Signal	Power	Signal	Endurance (Cycles)	
	ØF	Min.	Max.	AWG	Contact	Contact	Contact	Contact	(0) 0.00	
0.7	0.7	-	0.3	26	-	2	-	5	1000	
1.3	1.1	-	0.6	20	17	-	3.0	-	1000	
1.6	1.5	-	0.93	18	26	-	2.5	-	1000	
2.0	1.9	-	1.34	16	26	-	2.5	-	1000	

^{*}see chart on page 3

Keying

Keying angles



Keying shells availability

Shell Styles for Plugs & Receptacles (see page 8)										
Shell size	Key	ED	EP	EE	ER	EZ	IL	FA	FB	FD
2	Т	•	•	•	•	•	•	•	•	•
	u	•	•	•	•	•	•	0	•	•
	Α	0	0	0	0	0	0	0	0	0
	В	0	0	0	0	0	0	0	0	0

• Available for JDX Series

Keying color codes

Keying	Contacts Standard Gender	Contacts Reverse Gender	
Т	Red	Purple	
u	White	Yellow	
Α	Green	Orange	
В	Blue	Light Brown	

Part Numbers

Existing Shell Style Part Numbers

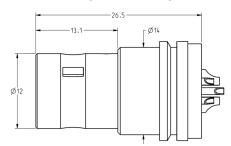




21.5 Ø 2

ER: Rear Panel Mount

FD: Straight Cable Plug



Please note:

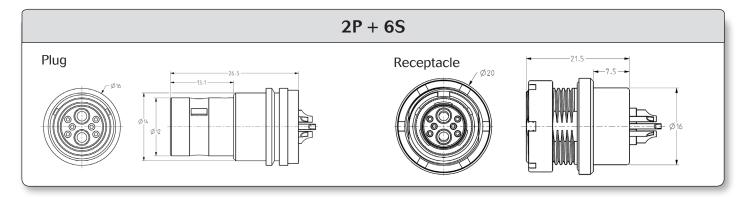
5.5 MAX.

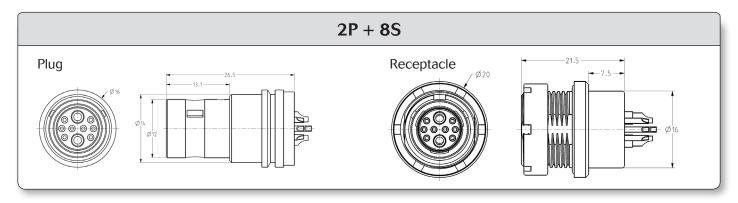
FD Straight Plug is supplied as overmolded cable assembly or as stand alone connector (strain relief boot not available for this product)

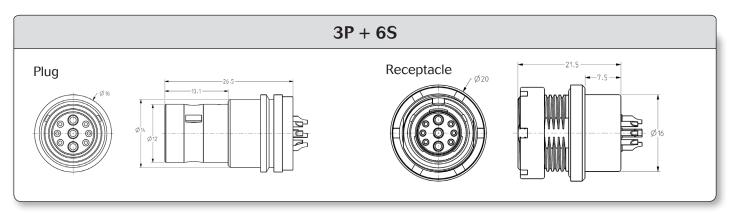
For other shell styles & part numbers see shell styles on page 8 and part number configurator on page 9.

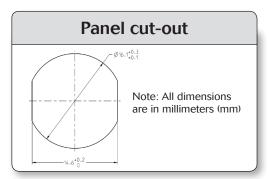
Part Number	Description	Shell Style	Shell Size	Shell Type
JDXFD2T001MSN	2 Power / 6 Signal (2P + 6S)	FD	2	Plug
JDXFD2T002MSN	2 Power / 8 Signal (2P + 8S)	FD	2	Plug
JDXFD2T003MSN	3 Power / 6 Signal (3P + 6S)	FD	2	Plug
JDXER2T001FSN	2 Power / 6 Signal (2P + 6S)	ER	2	Receptacle
JDXER2T002FSN	2 Power / 8 Signal (2P + 8S)	ER	2	Receptacle
JDXER2T003FSN	3 Power / 6 Signal (3P + 6S)	ER	2	Receptacle

Dimensions

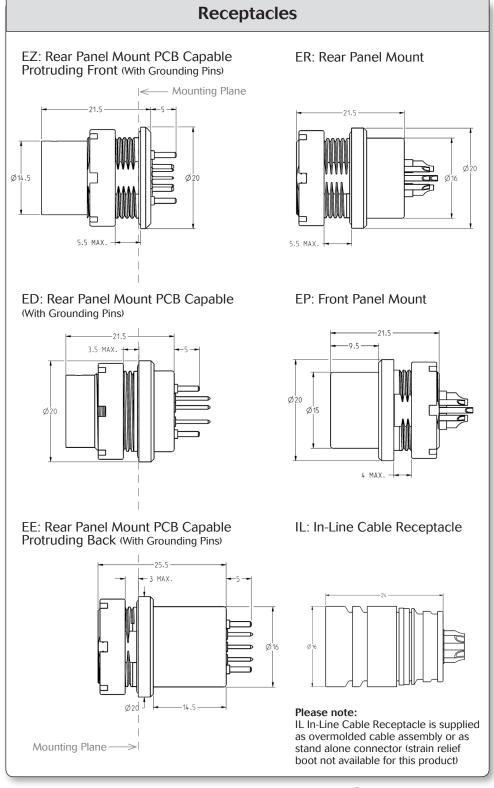


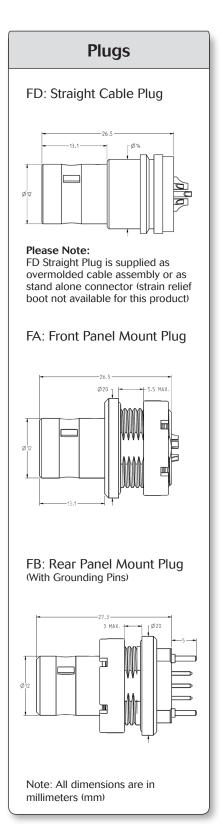






JDX Hybrid Shell Styles – Size 2

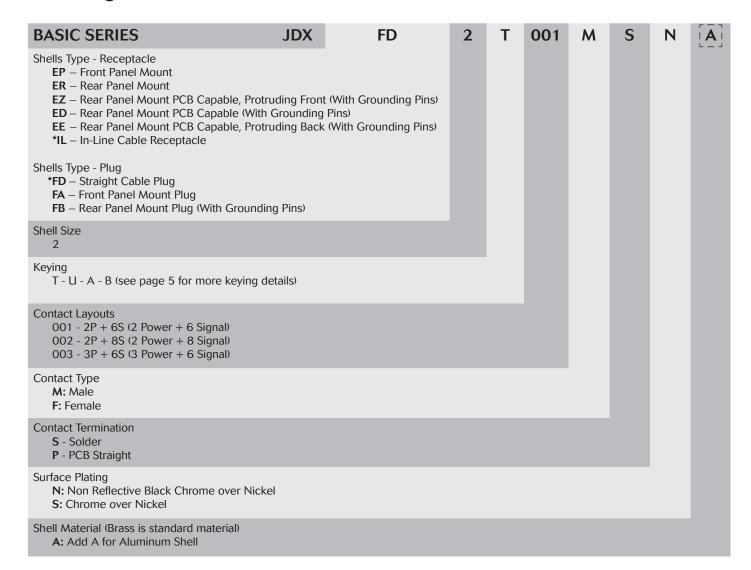




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JDX Hybrid Mixed Power & Signal

Ordering Information



*Please note: FD and IL shell styles are supplied as overmolded cable assemblies or as stand alone connectors (strain relief boot not available for this product)

Custom cable assemblies available upon request.

Custom grommets and overmolds can be designed for any application.