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	1	Waterproof, IP68 (Mated and Unmated)						
Quick Release Breakaway Coupler	\	Disengages at specified pull force levels for safe quick disconnects						
Rugged	\checkmark	Robust to withstand Harshest Environments						
Flexible	1	3 Layouts Available for multiple applications						
Confirmed Mating	1	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 $M\Omega$
- 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

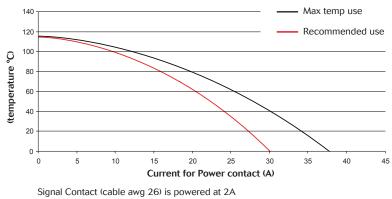
Connector rating: • Power Contact: 17A at 30°C T-Rise

Signal Contact: 2A

Connector layout:

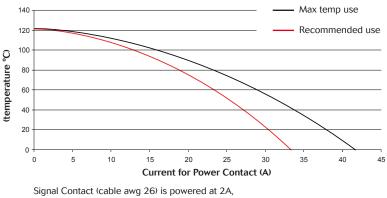


Power Derating curve - Signal Contact Fixed at 2A



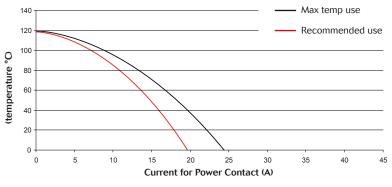
Power Contact (cable awg 26) is powered at 2. Power Contact (cable awg 16): 0 to 35 A

Power Derating curve - Signal Contact Fixed 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						
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 page 3					
Signal current rating	See	e Derating Curve on pag	je 3			
Contact Resistance (mΩ)						
Power contact resistance (mΩ)	2.5	2.5	3			
Signal contact resistance (m Ω)	5	5	5			
Dielectric Withstanding Voltage	1500	1500	1500			
Operating Voltage (Vdc/Vrms)	700/500	700/500	700/500			

Contacts

Solder contacts





Cont	tacts	u	sable Cable	s	Current R	ating* (A)	Contact Resistance (m Ω)		Endurance		
ØC	ØE	Core sec	tion (mm ²)		Power Signal		Power Signal		Power	Signal	Endurance (Cycles)
ØC	ØF	ØF Min. Max. AWG Foregraph (Signature) Signature Signature	Contact	Contact	Contact	, 5.00					
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

Кеу	т	u	A	В
Plug & Receptacle				

Keying shells availability

Shell Styles for Plugs & Receptacles (see page 8)											
Shell size	nell size Key ED EP EE ER EZ IL FA FB F										
	Т	•	•	•	•	•	•	•	•	•	
2	U	•	•	•	•	•	•	0	•	•	
Z	А	0	0	0	0	0	0	0	0	0	
	В	0	0	0	0	0	0	0	0	0	

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• Available for JDX Series

Keying color codes

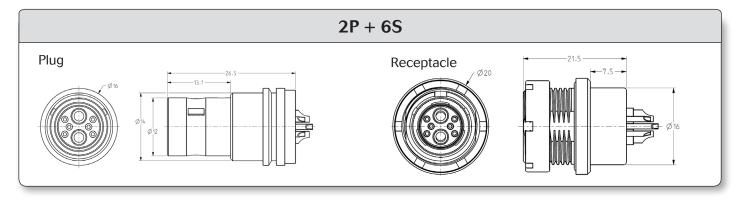
Keying	Contacts Standard Gender	Contacts Reverse Gender
Т	Red	Purple
u	White	Yellow
Α	Green	Orange
В	Blue	Light Brown

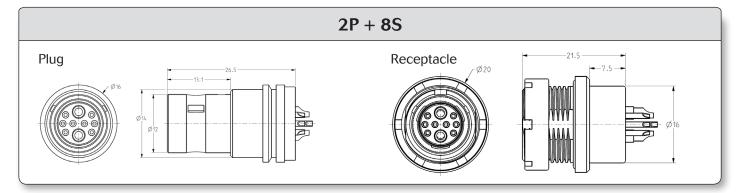
Part Numbers

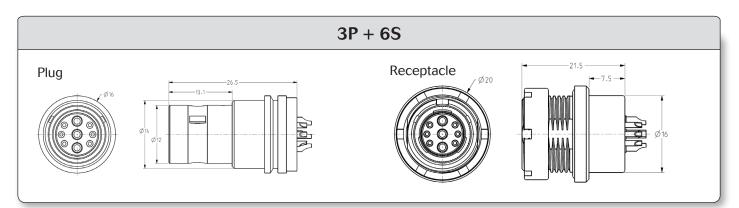


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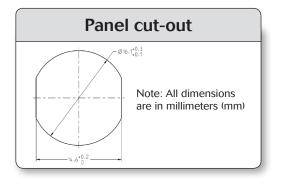
Dimensions



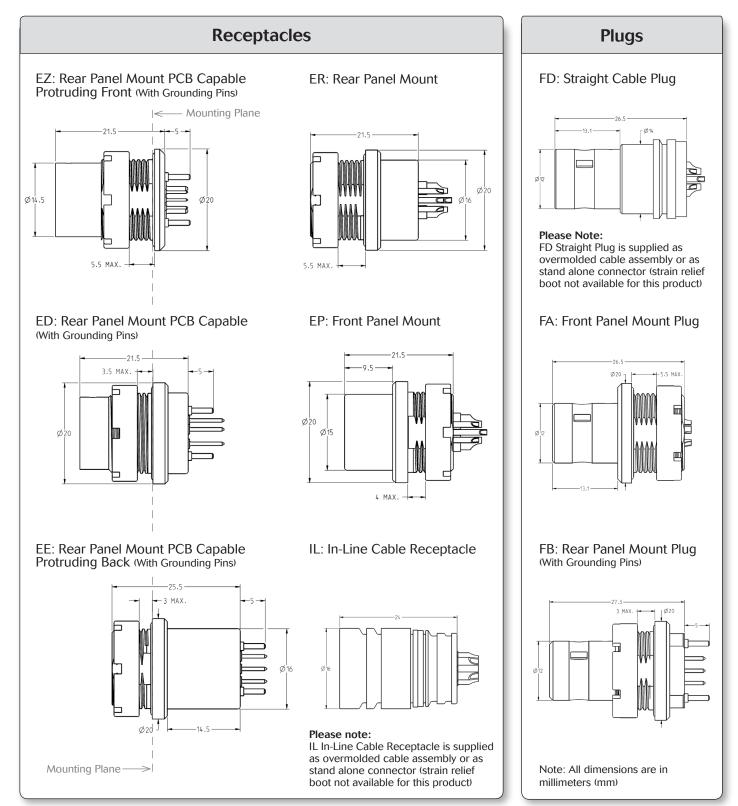




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JDX Hybrid Shell Styles – Size 2



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Ordering Information

BASIC SERIES	JDX	FD	2	Т	001	М	S	Ν	
Shells Type - Receptacle EP – Front Panel Mount ER – Rear Panel Mount EZ – Rear Panel Mount PCB Capable, Pr ED – Rear Panel Mount PCB Capable (W EE – Rear Panel Mount PCB Capable, Pr *IL – In-Line Cable Receptacle	/ith Grounding	I Pins)							
Shells Type - Plug *FD – Straight Cable Plug FA – Front Panel Mount Plug FB – Rear Panel Mount Plug (With Ground	nding Pins)								
Shell Size 2									
Keying T - U - A - B (see page 5 for more keyin	g details)								
Contact Layouts 001 - 2P + 6S (2 Power + 6 Signal) 002 - 2P + 8S (2 Power + 8 Signal) 003 - 3P + 6S (3 Power + 6 Signal)									
Contact Type M: Male F: Female									
Contact Termination S - Solder P - PCB Straight									
Surface Plating N: Non Reflective Black Chrome over N S: Chrome over Nickel	ickel								
Shell Material (Brass is standard material) A: Add A for Aluminum Shell									

*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.

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