JR is a series of subminiature high voltage cable assemblies that are ideally designed to interconnect low power, mini-TWTs to a power supply in Radar or Electronic Countermeasure (ECM) systems. Since their introduction, these high contact density assemblies have also found applications in laser systems, photomultiplier detection systems, night vision systems, Space instruments and other applications where high voltage in a small package with a highly, flexible cable harness is required.

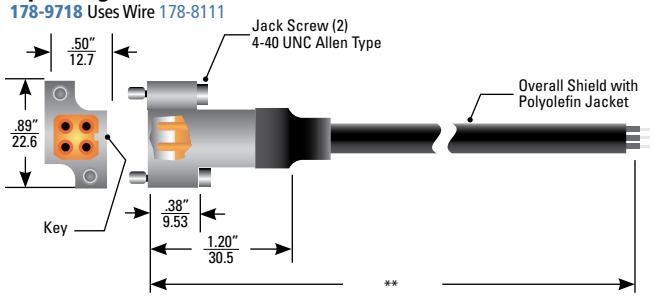
JR Series connectors are only available as pre-assembled plug or receptacle cable assemblies. Each assembly is wired with Teledyne Reynolds' Ready-to-Bond™ etched FEP or silicone coated, FEP cable. A braided shield or NOMEX® woven jacket is optional. The insulator is a thermoplastic on both the plug and receptacle, but the Advanced Interface Seals™ contained in the receptacle are silicone. The receptacle and plug bodies are nickel plated aluminum.

PLUG CABLE ASSEMBLIES

(Dimensions shown as in/mm)

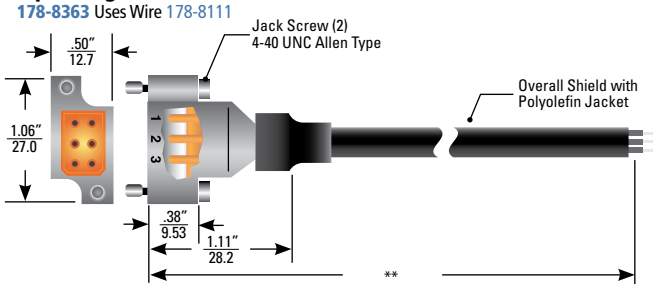
4-pin, Single-Ended, Shielded

178-9718 Uses Wire 178-8111



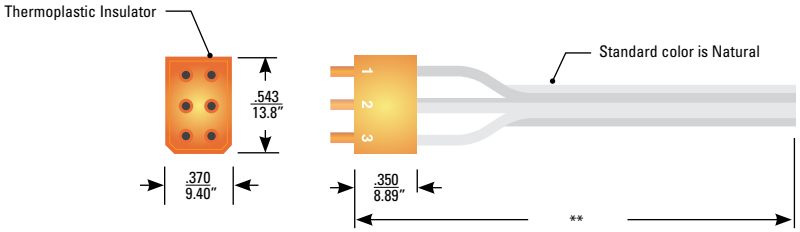
6-pin, Single-Ended, Shielded

178-8363 Uses Wire 178-8111



6-pin, Single-Ended, In-line

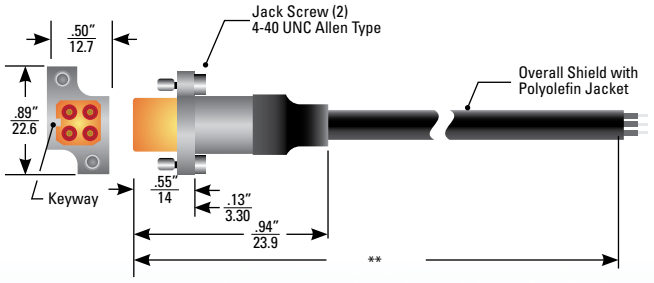
700631 Uses Wire 178-8410



RECEPTACLE CABLE ASSEMBLIES

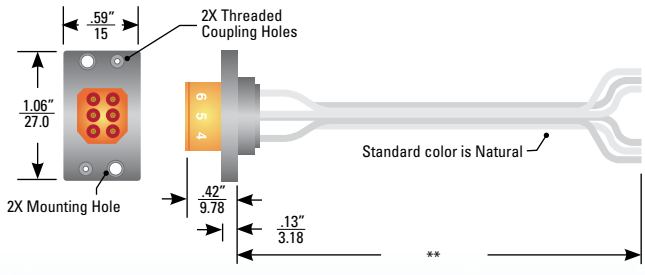
4-pin, Single-Ended, Shielded, Rear Mount

178-9719 Uses Wire 178-8111



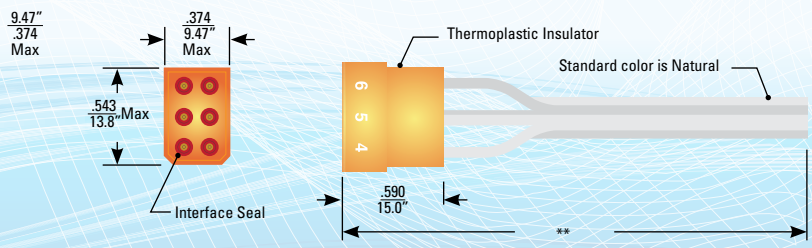
6-pin, Single-Ended, Front Mount

178-8362 Uses Wire 178-8410



6-pin, Single-Ended, In-line

700630 Uses Wire 178-8410



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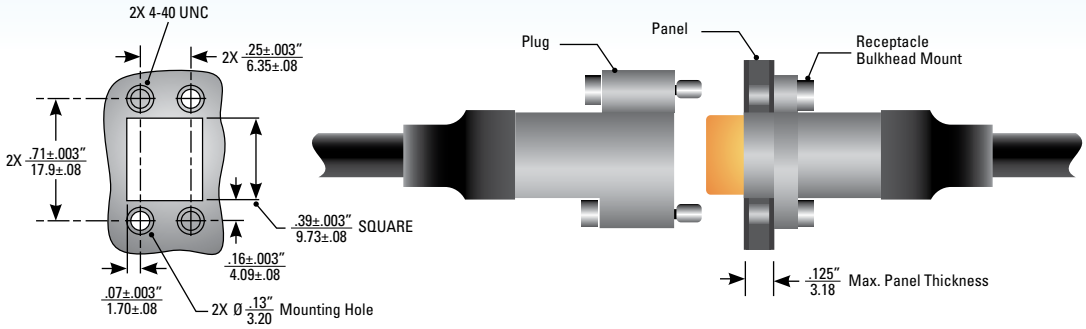
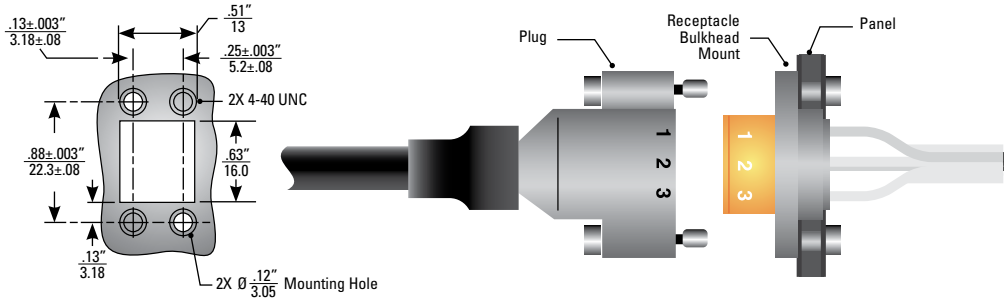
PANEL CUTOUT DIMENSIONS AND MOUNTING EXAMPLES

(Dimensions shown as in/mm)

4-pin



6-pin



SERIES SPECIFICATIONS

Series	Voltage Rating (kVDC)	Altitude Rating (ft)	Operating Temp. (°C)	Current Rating (Amp)	Receptacle Insulator Material	Plug Insulator Material	Coupling Style	Coupling Nut Material/ Finish	Plug Contact Material/Finish (Socket)	Recept. Contact Material/Finish (Pin)	Wire Type	Wire Insulation	Braid Termination	Test Voltage @ 70,000 ft (kVDC)	Test Voltage @ Sea Level (kVDC)
JR	6	70,000	-55 to 125	1.6	Plastic	Plastic	Jack Screw	Al/Ni	BeCu/Au with CRES hood	Brass/Au	Shielded or Non-shielded	FEP	Crimp	9	N/A

WIRE SPECIFICATIONS

(• = Same value as above)

Part #	Operating Voltage (kVDC)	Conductor			Insulation		Shielding			Jacket		Impedance Ω	Attenuation dB/100 ft @ 400 MHz	Capacitance pF/ft (Nom.) @ 1 kHz
		AWG	Strands	Plating	Material	ø in./mm	AWG	Plating	ø in./mm	Material	ø in./mm			
178-8111	18	24	19/36	SPC	Etched FEP	0.050 / 1.27	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
178-8410	•	•	•	•	Silicone Coated FEP	0.058 / 1.48	•	•	•	•	•	•	•	•

**Cable Assembly Ordering Information: All cable assembly cable lengths are to be specified in inches only. For example, to order part number 178-6027 with a cable length of 10 feet 8 inches the cable assembly part number would be specified as 178-6027-128N.

• **Note:** Product numbers and specs subject to change without notice. • Products listed represent only a small selection of Teledyne Reynolds' products please visit www.teledynereynolds.com for the most up to date product information. • Contact Teledyne Reynolds' Engineering to discuss custom designs. **WARNING: Connectors should NEVER be handled mated or unmated when voltage is applied.**