The JR Series of subminiature high voltage cable assemblies that utilize Teledyne Reynolds' patented Advanced Interface Sealing System™ are ideally designed to interconnect, mini-TWTs to power supplies in radar, missile seeker or Electronic Countermeasure (ECM) systems. Since their introduction, these high contact density assemblies have also found applications in laser systems, photomultiplier (PMT) 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.

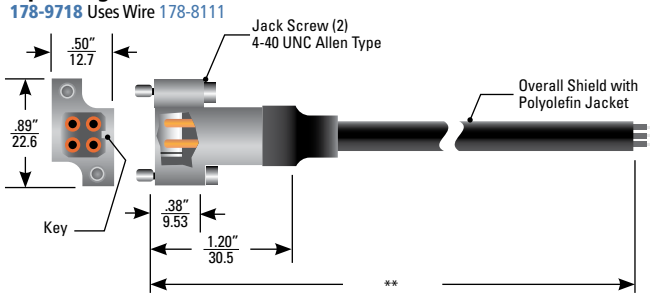
JR Series connectors are only available as pre-assembled plug or receptacle cable assemblies with each assembly wired with Teledyne Reynolds' Ready-to-Bond™ etched FEP or silicone coated, FEP wire. Both shielded and un-shielded configurations are available.

PLUG CABLE ASSEMBLIES

(Dimensions shown as in/mm)

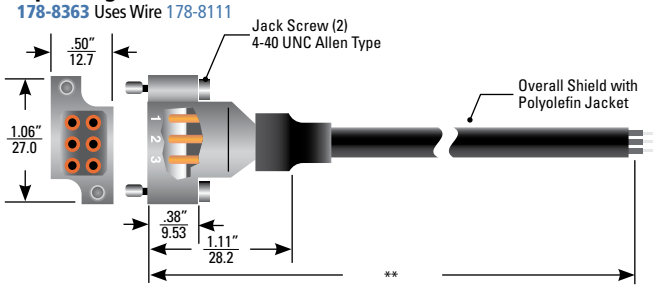
4-pin, Single-Ended, Shielded

178-9718 Uses Wire 178-8111



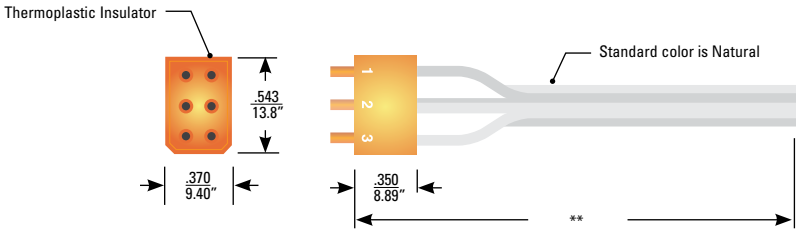
6-pin, Single-Ended, Shielded

178-8363 Uses Wire 178-8111



6-pin, Single-Ended, In-line

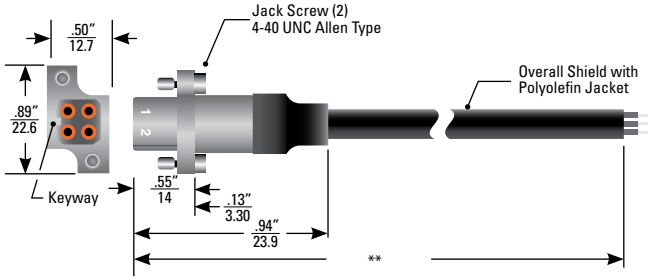
700631 Uses Wire 178-8410



RECEPTACLE CABLE ASSEMBLIES

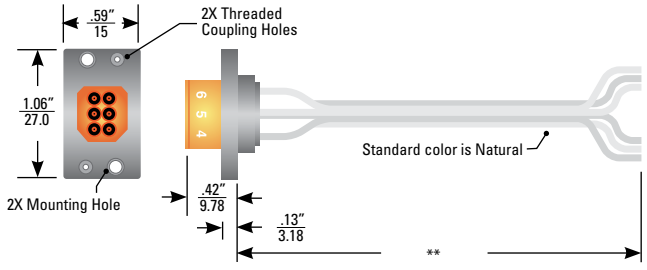
4-pin, Single-Ended, Shielded, Rear Mount

178-9719 Uses Wire 178-8111



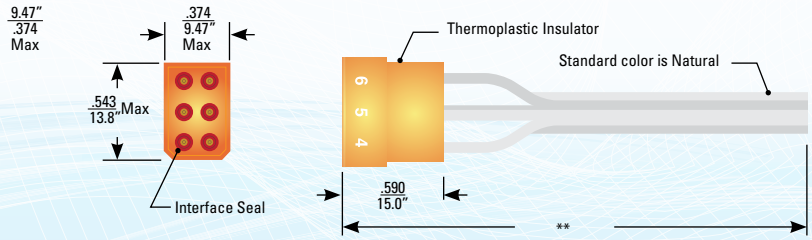
6-pin, Single-Ended, Front Mount

178-8362 Uses Wire 178-8410



6-pin, Single-Ended, In-line

700630 Uses Wire 178-8410



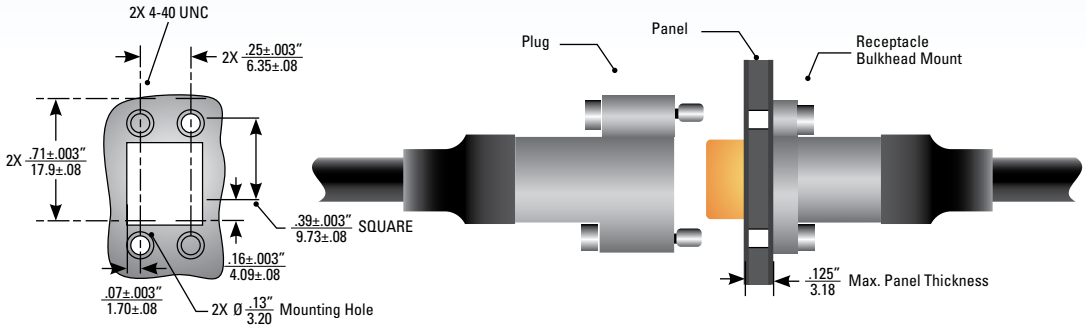
Rev. 00-042017

Approved for Public Release: MP/039/17

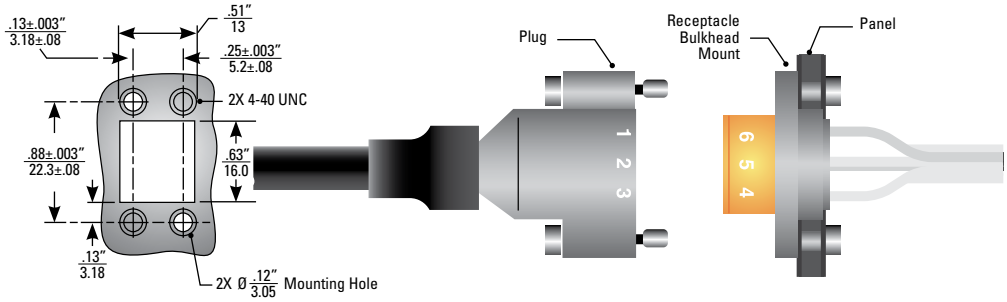
PANEL CUTOUT DIMENSIONS AND MOUNTING EXAMPLES

(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	3†	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 Number	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	•	•	•	•	•	•	•	•

†Current rating is per pin for multi-pin connectors. Based on your specific application, additional derating may be required.
**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.**