



Outline

The FLA series are screw-coupling type coaxial connectors are far super in durability, while complying with SMA connectors (MIL-C-39012 and IEC169-15). They are widely used as a standard connector for microwave. These connectors are suitable for satellite communications equipment, radar, etc., which utilize the microwave band.

Document Disclaimer

- When placing orders with us, minimum order quantities are set for every product.
- Be sure to contact us before starting preliminary design of PCBs using our connectors.
- The specifications and information shown in the catalog are subject to change without notice.

Specifications

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	Item	Specification
Electrical	Characteristic impedance	50 ohms
	Dielectric withstanding voltage	1000V AC for up to one minute
	Insulation resistance	Over 5000 megohms (at 500V DC)
	Contact resistance	4 milliohms or less
	Frequency range	DC to 20 GHz
	Voltage standing wave ratio (VSWR)	Straight connector: 1.05+0.01 f, Right-angle connector: 1.05+0.025 f (f = Frequency in GHz)
Mechanical	Fixed torque of central contact	Rotational torque: 0.017 N cm or more, axial torque: 1.5 N cm or more
	Insertion or removal force of central contact	0.015 N or more
	Durability	6 milliohm or less after 1000 cycles of insertion and extraction
	Tightening torque of coupling	0.6 to 1.0 N cm
	Hold-down strength of coupling	5.1 N or more
Environmental	Temperature cycling test	Abnormality should not be detected after it is tested in the condition C of the method 102 on MIL-STD-202
	Resistance to corrosion	Abnormality should not be detected after it is tested in the condition B of the method 101 on MIL-STD-202
	Resistance to impact	Abnormality should not be detected after it is tested in the condition C of the method 213 on MIL-STD-202
	Resistance to vibration	Abnormality should not be detected after it is tested in the condition D of the method 204 on MIL-STD-202
	Resistance to moisture	Abnormality should not be detected after it is tested in the method 106 on MIL-STD-202

Materials and Plating

Part Name	Material	Plating	
Shell	Stainless steel or brass	Gold plate or passivation or nickel plate	
Insulator	Four-fluoride resin	-	
Center contact (male)	Brass	Cold plata	
Center contact (female)	Beryllium	Gold plate	
Nuts of coupling	Stainless steel	Gold plate or passivation	
Gasket	Silicone rubber	_	
Ferrule	Copper	Gold plate or solder plate	

Contact Plating

Example FLA-H-SPM1+ : Passivated FLA-H-SPM1G+: Gold plate FLA-H-SPM1B+ : Nickel plate

Cable Assemblies

We assemble semi-rigid cables, semi-flexible cables and flexible cables. Since we assemble them based on your engineering drawings, please contact us.

Product List



Plug for 0.085-inch semi-rigid cable FLA-H-SPM1+,FLA-H-SPM1G+ FLA-H-SPM1B+

K-34 FLA series...6



Plug for 1.5D-2V cable FLA-H-SPM11+ FLA-H-SPM11G+

K-35 FLA series...7



Jack for 0.141-inch semi-rigid cable FLA-H-SPF7 FLA-H-SPF7G

K-36 FLA series...8



Four-hole panel-mounted jack for 0.085-inch semi-rigid cable FLA-H-SPF10G+

K-37 FLA series...9



Two-hole panel-mounted jack receptacle with round terminal FLA-H-SRF19 FLA-H-SRF19G+ K-38 FLA series...10



Plug for 0.085-inch semi-rigid cable FLA-H-SPM14+,FLA-H-SPM14G+ FLA-H-SPM14B+

K-34 FLA series...6



Right-angle plug for 0.085-inch semi-rigid cable FLA-H-LPM3+ FLA-H-LPM3G+ **K-35** FLA series...7



Two-hole panel-mounted jack for 0.047-inch semi-rigid cable FLA-H-SPF16BG+

K-36 FLA series...8



Four-hole panel-mounted jack for 0.141-inch semi-rigid cable FLA-H-SPF2 FLA-H-SPF2G K-37 FLA series...9



Two-hole panel-mounted jack receptacle with round terminal FLA-H-SRF20 FLA-H-SRF20G+ **K-38** FLA series...10



Plug for 0.141-inch semi-rigid cable FLA-H-SPM9 FLA-H-SPM9G

K-34 FLA series...6



Right-angle plug for 1.5D-2V cable FLA-H-LPM5+ FLA-H-LPM5G+

K-35 FLA series...7



Four-hole panel-mounted jack for 0.047-inch semi-rigid cable FLA-H-SPF3+ FLA-H-SPF36+ **K-36** FLA series...8



Two-hole panel-mounted jack receptacle with round terminal FLA-H-SRF9 FLA-H-SRF9G+ **K-38**





Two-hole panel-mounted jack receptacle with soldering terminal FLA-H-SRF13 FLA-H-SRF13G+ **K-39** FLA series...11



Plug for 0.141-inch semi-rigid cable FLA-H-SPM7 FLA-H-SPM7G

K-34 FLA series...6



Jack for 0.085-inch semi-rigid cable FLA-H-SPF6 FLA-H-SPF6G

K-36 FLA series...8



Four-hole panel-mounted jack for 0.085-inch semi-rigid cable FLA-H-SPF1 FLA-H-SPF1G **K-37** FLA series...9



Two-hole panel-mounted jack receptacle with round terminal FLA-H-SRF10

K-38 FLA series...10



Two-hole panel-mounted jack receptacle with half-round terminal FLA-H-SRF12

K-39 FLA series...11



Two-hole panel-mounted jack receptacle with half-round terminal FLA-H-SRF27 FLA-H-SRF27G+ **K-39** FLA series...11



Two-hole panel-mounted jack receptacle with tab terminal FLA-H-SRF32 FLA-H-SRF32G+ **K-40** FLA series...12



Four-hole panel-mounted jack receptacle with round terminal FLA-H-SRF8

K-41 FLA series...13



Four-hole panel-mounted jack receptacle with half-round terminal FLA-H-SRF6 FLA-H-SRF6G+ **K-42** FLA series...14



Four-hole panel-mounted right-angle jack receptacle with half-round terminal FLA-H-LRF2+,FLA-H-LRF2G+

K-43 FLA series...15



Two-hole panel-mounted jack receptacle with slit terminal FLA-H-SRF14

K-39 FLA series...11



Four-hole panel-mounted jack receptacle with round pin contact FLA-H-SRF1+ FLA-H-SRF1G+ **K-40** FLA series...12



Four-hole panel-mounted jack receptacle with round terminal FLA-H-SRF16

K-41 FLA series...13



Four-hole panel-mounted jack receptacle with slit terminal FLA-H-SRF5 FLA-H-SRF5G+ K-42 FLA series...14



Four-hole panel-mounted right-angle jack receptacle with half-round terminal FLA-H-LRF4+,FLA-H-LRF4G+

K-43 FLA series...15



Two-hole panel-mounted jack receptacle with tab terminal FLA-H-SRF11

K-40 FLA series...12



Four-hole panel-mounted jack receptacle with round pin contact FLA-H-SRF2+ FLA-H-SRF2G+ **K-41** FLA series...13



Four-hole panel-mounted jack receptacle with round terminal FLA-H-SRF18 FLA-H-SRF18G+ **K-42** FLA series...14



Four-hole panel-mounted jack receptacle with tab terminal FLA-H-SRF7 FLA-H-SRF7G+ **K-43** FLA series...15



Four-hole panel-mounted right-angle jack receptacle with half-round terminal FLA-H-LRF5+,FLA-H-LRF5G+

K-44 FLA series...16



Two-hole panel-mounted jack receptacle with tab terminal FLA-H-SRF31 FLA-H-SRF31G+ K-40 FLA series...12



Four-hole panel-mounted jack receptacle with round terminal FLA-H-SRF3 FLA-H-SRF3G+ **K-41** FLA series...13



Four-hole panel-mounted jack receptacle with soldering terminal FLA-H-SRF4 FLA-H-SRF4G+ **K-42** FLA series...14



Four-hole panel-mounted jack receptacle with tab terminal FLA-H-SRF15 FLA-H-SRF15G+ K-43 FLA series...15



Four-hole panel-mounted right-angle jack receptacle with half-round terminal FLA-H-LRF8+

K-44 FLA series...16



Through hole type receptacles with four legs for PCB FLA-H-SRF48 FLA-H-SRF48B+ **K-44** FLA series...16



Union-type adaptor FLA-H-SA4+ FLA-H-SA4G+

K-45 FLA series...17



Jack-to-jack adaptor FLA-H-SA1+ FLA-H-SA1G+

K-45 FLA series...17



Cap FLA-H-DC1+

K-46 FLA series...18



Four-hole panel-mounted jack-to-jack adaptor FLA-H-SA3+ FLA-H-SA3G+ **K-45** FLA series...17



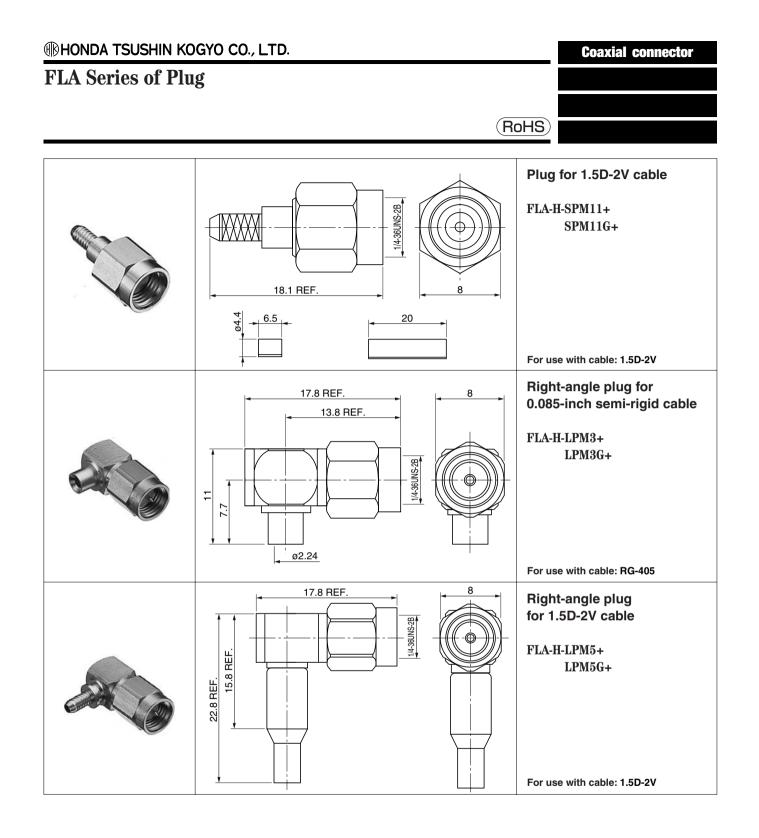
Plug-to-plug adaptor FLA-H-SA2+ FLA-H-SA2G+

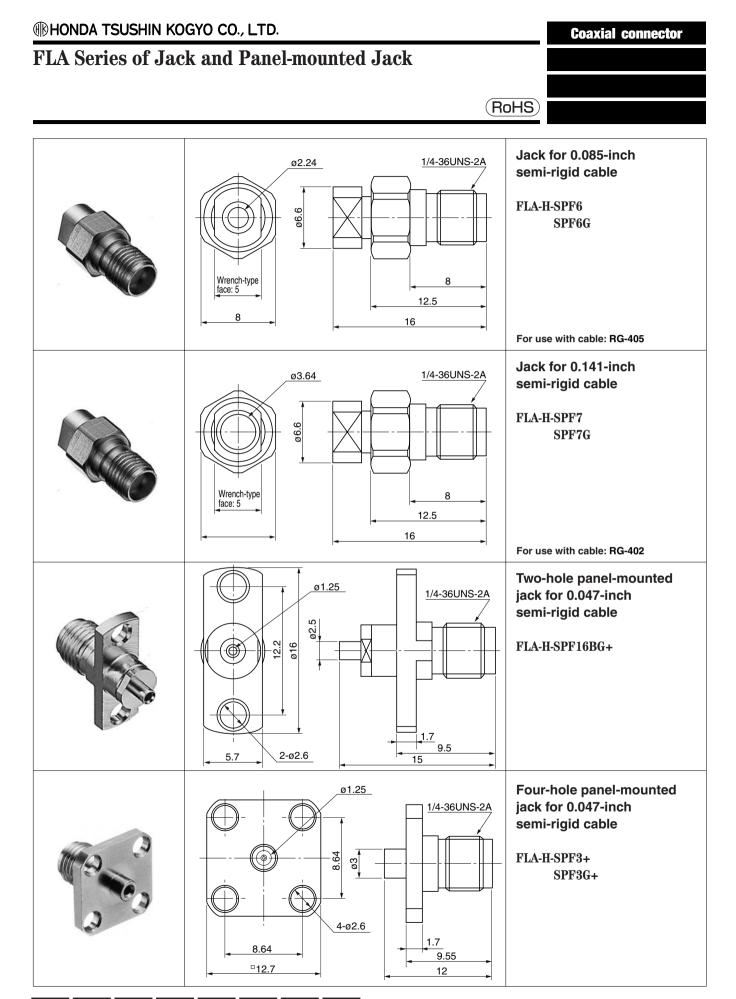
K-45 FLA series...17

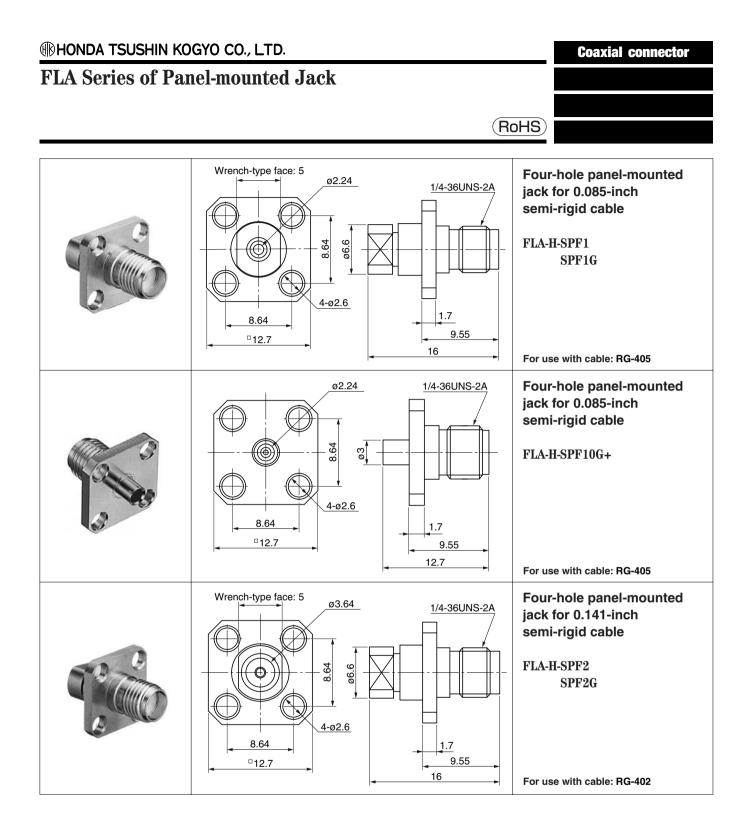
FLA Series of Plug

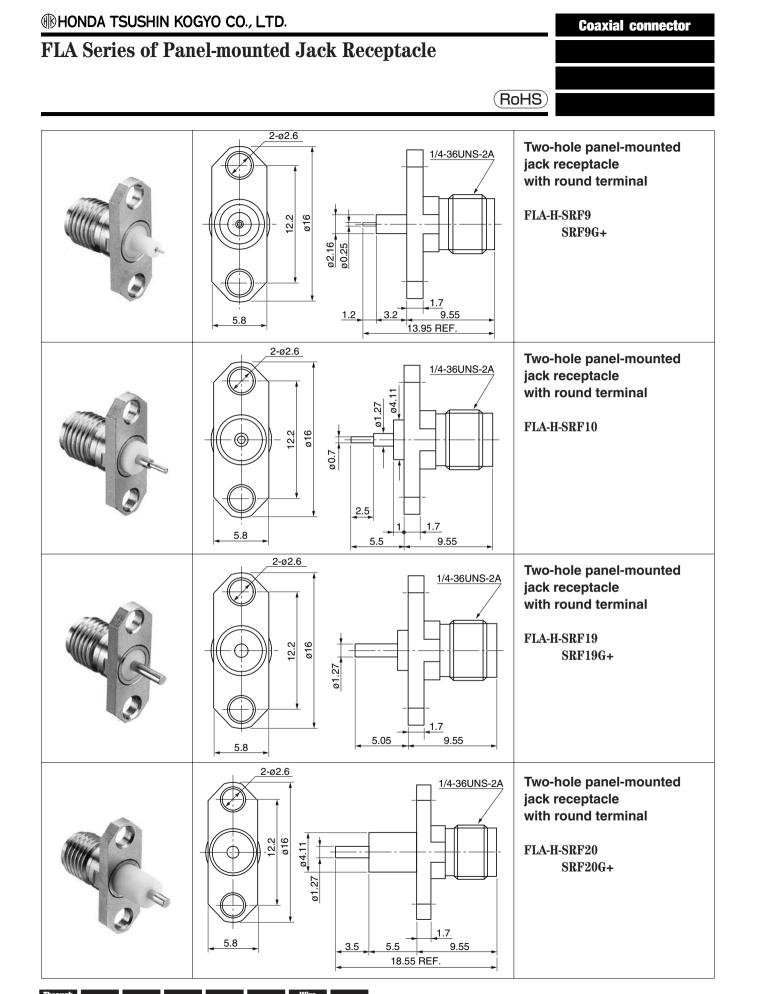
Coaxial connector

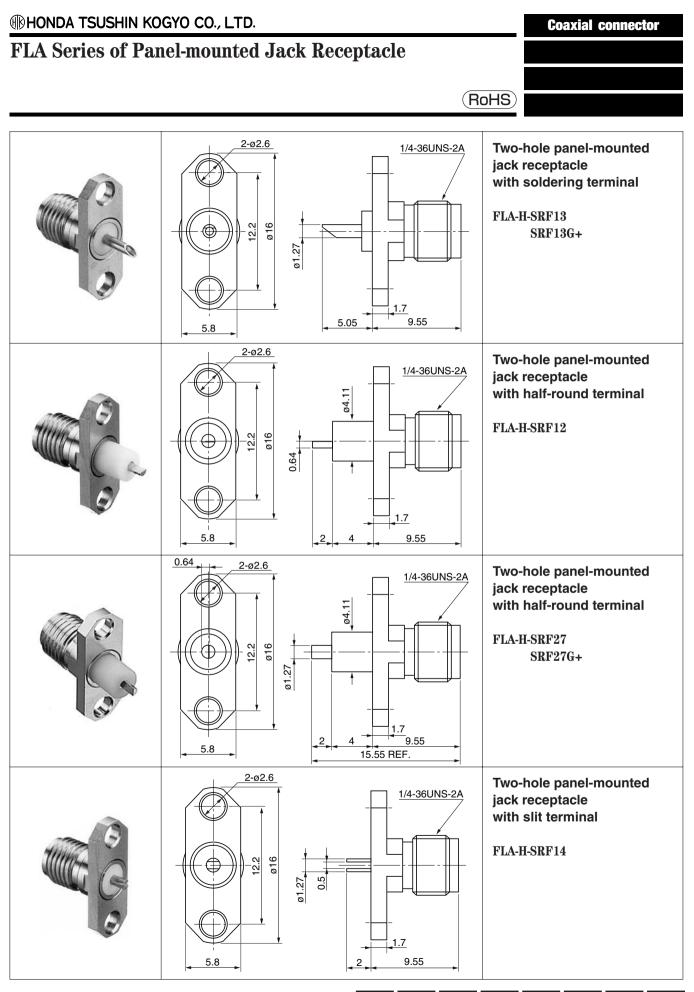
(RoHS) Plug for 0.085-inch semi-rigid cable 1/4-36UNS-2B FLA-H-SPM1+ SPM1G+ ø2.24 SPM1B+ 1.4 10.1 8 For use with cable: RG-405 Plug for 0.085-inch semi-rigid cable 1/4-36UNS-2B FLA-H-SPM14+ SPM14G+ SPM14B+ 8.7 8 For use with cable: RG-405 Plug for 0.141-inch semi-rigid cable 1/4-36UNS-2B FLA-H-SPM9 SPM9G ø3.64 1.4 10.1 8 For use with cable: RG-402 Plug for 0.141-inch semi-rigid cable 1/4-36UNS-2B FLA-H-SPM7 SPM7G 8.7 8 For use with cable: RG-402





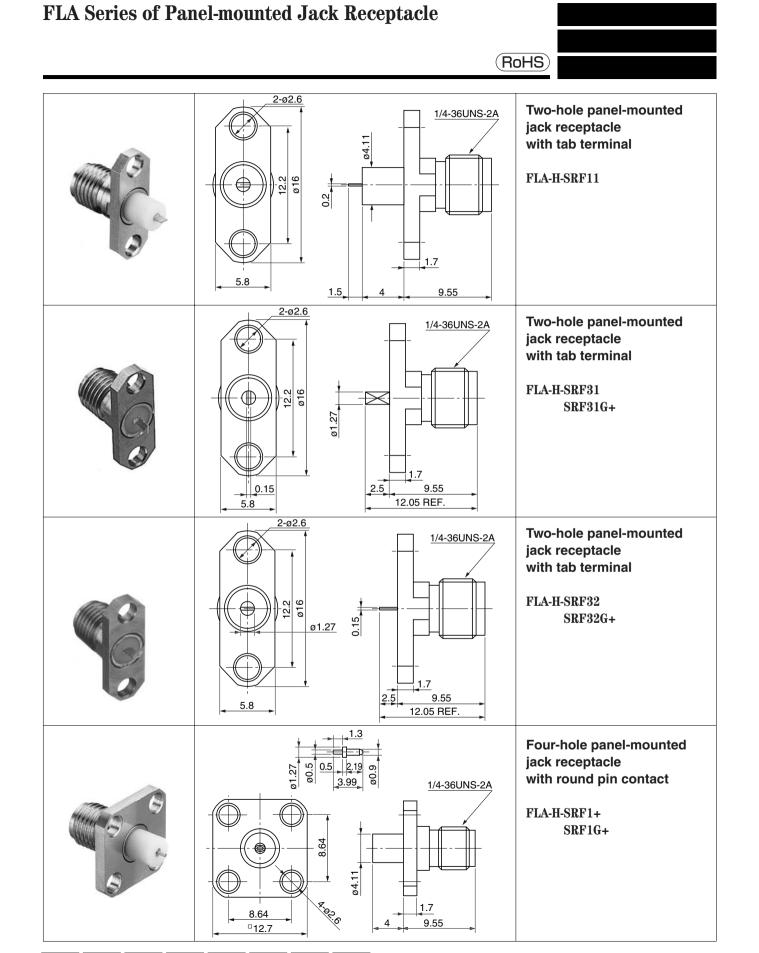






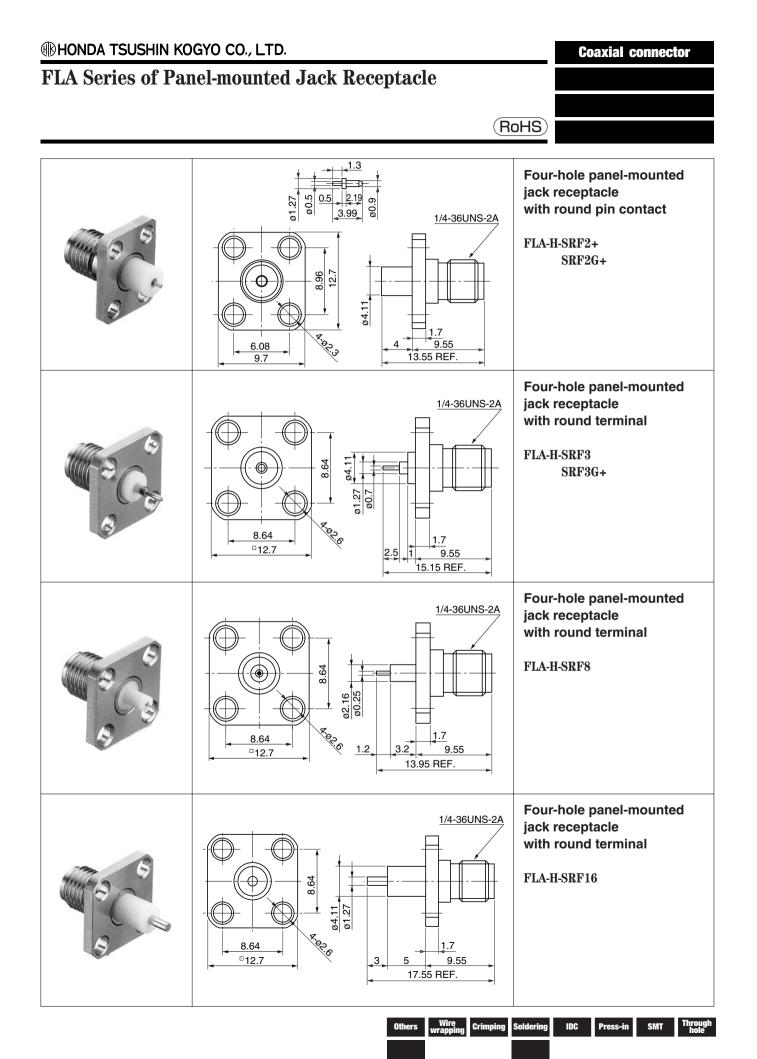
Others Wire Crimping Soldering IDC Press-in S

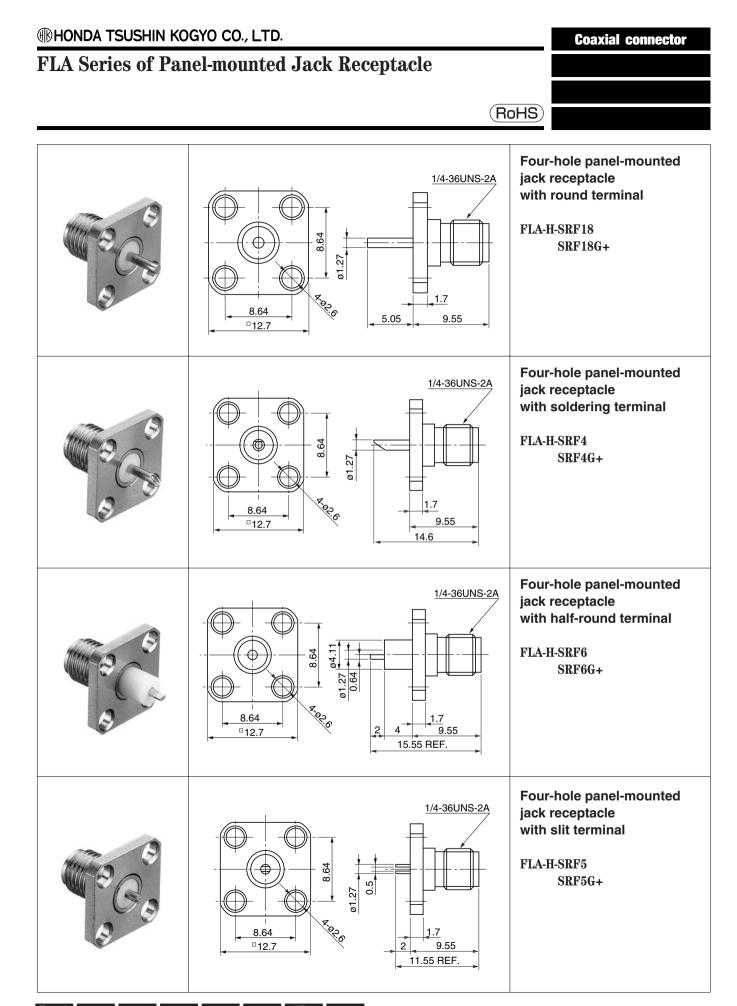
SMT Through hole



Coaxial connector

SMT Press-in IDC Soldering Crimping Wire wrapping Others





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