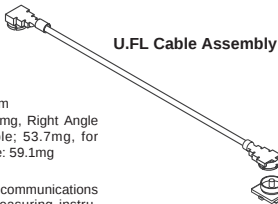


U.FL SMD Ultra-Miniature Coaxial Connectors and Assemblies

U.FL Series: Industry Standard for Bluetooth and Wireless LAN
(World's Smallest and Lightest Coaxial Connectors, meeting frequencies up to 6GHz)

- FEATURES:**
- Mating Height: Only 2.4mm
 - Weight: Receptacle: 15.7mg, Right Angle Plugs for ø0.81mm cable: 53.7mg, for ø1.13 and ø1.32mm cable: 59.1mg
- APPLICATIONS:**
- Mobile phones, wireless communications equipment, electronic measuring instruments, GPS, wireless LAN, Bluetooth, etc.

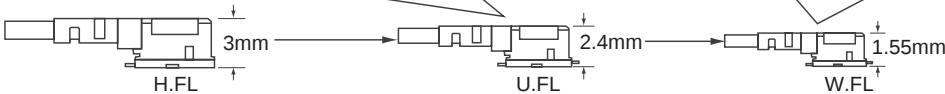


U.FL Cable Assemblies
(See Pricing Below)

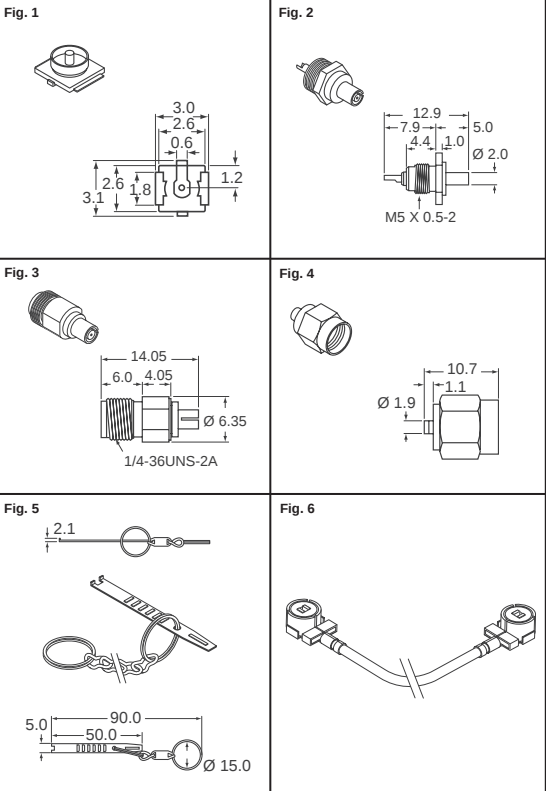
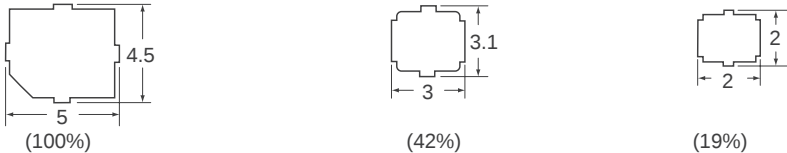
Part Number	Shield	Cable Diameter (mm)	Cable Length (mm)	Mating Height (mm)	Frequency (Ghz)
With 5010 Cable					
U.FL-2LP-04-A ⁽²⁰⁰⁾ (500)	Single	0.81	200 500	2.4	3
With 5016 Cable					
U.FL-2LP-5016-A ⁽²⁰⁰⁾ (500)	Single	1.13	200 500	2.4	6
With 066 Cable					
U.FL-2LP-066-A ⁽²⁰⁰⁾ (500)	Double	1.32	200 500	2.4	6

U.FL SMD Receptacle

Mating Height



Required Board Space for Receptacle



- FEATURES:**
- Extremely Small Board Occupation resulting in an area of just 7.7mm²
 - Mating Height from the printed circuit board when it mates a receptacle with a (right angle) plug is 2.5mm maximum
 - These are the world's lightest coaxial connector meeting frequencies up to 6GHz. Receptacle: 15.7mg, Right Angle Plugs for ø0.81mm cable: 53.7mg, for ø1.13 and ø1.32mm cable: 59.1mg
 - To meet the frequency requirements of a wide variety of miniature equipment, these connectors offer high frequency performance from DC to 6GHz
 - The embossed tape packaging of the receptacles permits automatic mounting
 - The extraction tool permits simple removal of the connectors
 - Mating checks are made easy with the lock sensation it permits a check of sure mating
- APPLICATIONS:**
- Mobile phones
 - Wireless communications equipment
 - Electronic measuring instruments
 - GPS
 - Wireless LAN
 - Bluetooth
- SPECIFICATIONS:**
- Nominal characteristic impedance: 50Ω
 - Rated voltage: 60VAC (rms)
 - Rated frequency: DC to 6GHz
 - Operating Temperature Range: -40°C to +90°C
 - Operating humidity: 90% max.
 - Contact resistance: Center: 20mΩ max.; Outside: 10mΩ max.
 - Insulation Resistance: 500MΩ min.
 - V.S.W.R.: 1.3 max.
- MATERIAL AND FINISH:**
- Shell: Phosphor bronze, silver plating
 - Center contact (male): Brass, gold plating
 - Center contact (female): Phosphor bronze, gold plating
 - Insulator: Plug: PBT, black, UL94V-0; Receptacle: LCP, beige, UL94V-0

Fig.	Description	Digi-Key Part No.	1	Price Each 10	50	100	Hirose Part No.
U.FL Series							
1	Receptacle Coaxial SMD	H9161-ND H9161TR-ND	1.48 854.20/2,500	1.21 1675.54/5,000	.98 1675.54/5,000	.88 1675.54/5,000	U.FL-R-SMT(01) U.FL-R-SMT(10)
2	Inspection Receptacle	H9160-ND	21.42	20.71	19.28	18.57	U.FL-R-1
3	Adapter Side U.FL Plug/SMA Side Jack	H9158-ND	23.48	22.70	21.13	20.35	HRMJ-U.FLP
4	Adapter Side U.FL Jack/SMA Side Plug	H9157-ND	19.35	18.71	17.42	16.77	HRMP-U.FLJ
5	Removal Tool	H9159-ND	24.11	23.31	21.70	20.90	U.FL-LP-N-2
Cable Assemblies							
6	U.FL/U.FL 200mm, 0.81mm Diameter	H9162-ND	8.55	7.24	6.09	5.43	U.FL-2LP-04-A-(200)
	U.FL/U.FL 500mm, 0.81mm Diameter	H9163-ND	8.44	7.34	6.61	5.88	U.FL-2LP-04-A-(500)
	U.FL/U.FL 200mm, 1.13mm Diameter	H9166-ND	8.74	7.40	6.22	5.55	U.FL-2LP-5016-A-(200)
	U.FL/U.FL 500mm, 1.13mm Diameter	H9167-ND	8.79	7.64	6.88	6.12	U.FL-2LP-5016-A-(500)
	U.FL/U.FL 200mm, 1.32mm Diameter	H9164-ND	8.79	7.44	6.26	5.58	U.FL-2LP-066-A-(200)
	U.FL/U.FL 500mm, 1.32mm Diameter	H9165-ND	8.92	7.76	6.99	6.21	U.FL-2LP-066-A-(500)