

FZ Series Push-pull self-locking waterproof connector

Beijing Hongli Kunpeng International Trade Co.,Ltd.

INTRODUCTION TO THE SERIES

Product introduction

FZ series products adopt push-pull self-locking structure, waterproof class IP67,FZ series products can effectively resist vibration and impact, and can prevent the occurrence of disconnection caused by pulling the cable; It is absolutely safe and reliable to use, which is advantageous to realize plugging and pulling in very limited space.

It is widely used in electrical signal connection of electronic, instrument, video processing, medical and other equipment. Especially suitable for frequent connection separation, shielding instruments and equipment electrical signal connection.

Product features:

The connection styles of FZ series are straight type and 90 degree Angle type;

Needle core types are welded and PCB printed board two;

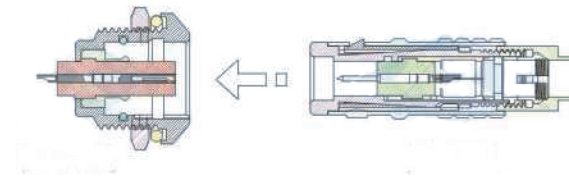
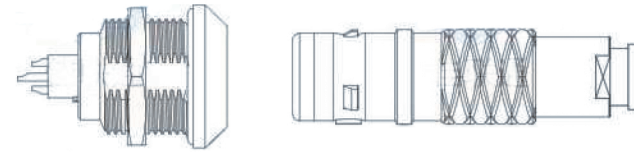
The shell surface is designed with a diamond-shaped appearance to prevent skid; FZ series adopts push-pull self-locking structure, easy and fast connection separation, ingenious self-locking device to ensure solid and reliable connection.

All metal structure can effectively shield the function; All-round shielding effect, anti-electromagnetic interference;

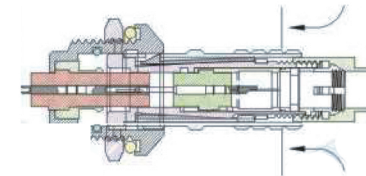
The reasonable key design has the function of preventing blind insertion and staying. The FZ series has a variety of key options

FZ series connector core number of 2-26, compact compact purchase, high-density installation can effectively save equipment space, to achieve the micro design of equipment; Waterproof class is IP67;

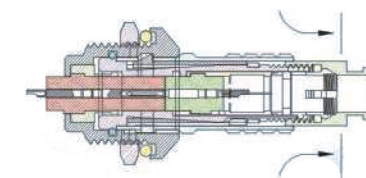
FZ series product structure principle



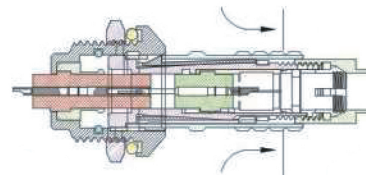
Insert the plug and socket to the opposite socket as indicated by the arrow



When the plug is inserted, the socket will push the lock sleeve shrapnel down to allow the plug to fit

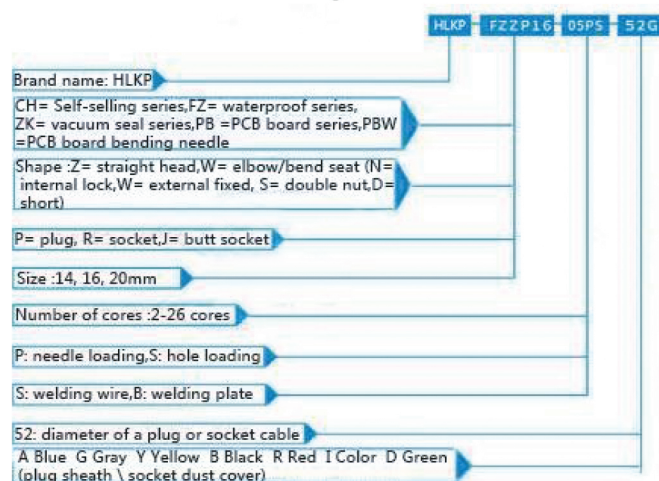


After being inserted in place, the lock sleeve shrapnel will spring open to the hook slot in the seat and get stuck. (Lock sleeve shrapnel will make the plug and socket lock to achieve self-locking purpose)



When the plug is pulled out, press the plug shell to pull back, so that the window of the plug shell extrude the lock sleeve cartridge. When the lock sleeve cartridge is protruded and extruded to less than the aperture inside the socket, the unlocking effect can be achieved, and the plug and socket will be unlocked

FZ series connectors Naming rules

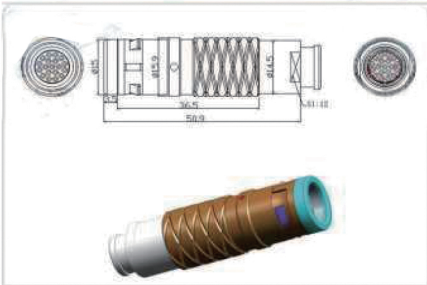


For example, HL-FZZP16-05PS-S2G=FZ series straight pin welding plug with 16mm hole size, 52 clip and jacket,color gray

Tel: 86-10-57891098 MP:86-13001179378 or 13146881693

Mail: info@hlkpint.com or lucyliu0807@163.com

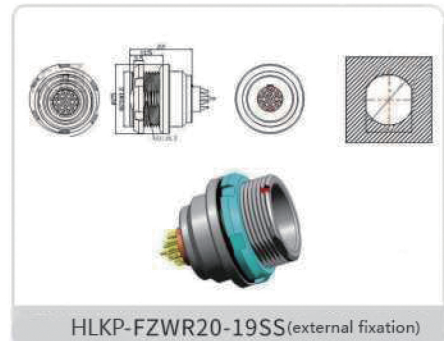
Dimensions of FZ20 series connectors



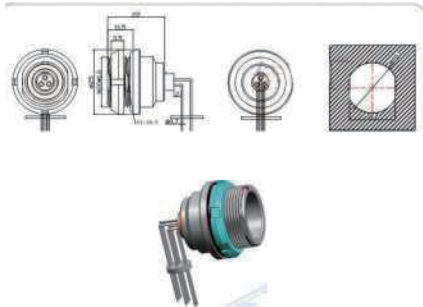
HLKP-FZNP20-19PS-92B(Tape sheath)



HLKP-FZNR20-20SS(Internal fixation)



HLKP-FZWR20-19SS(external fixation)



HLKP-FZPBW20-03SB(Long bent needle)

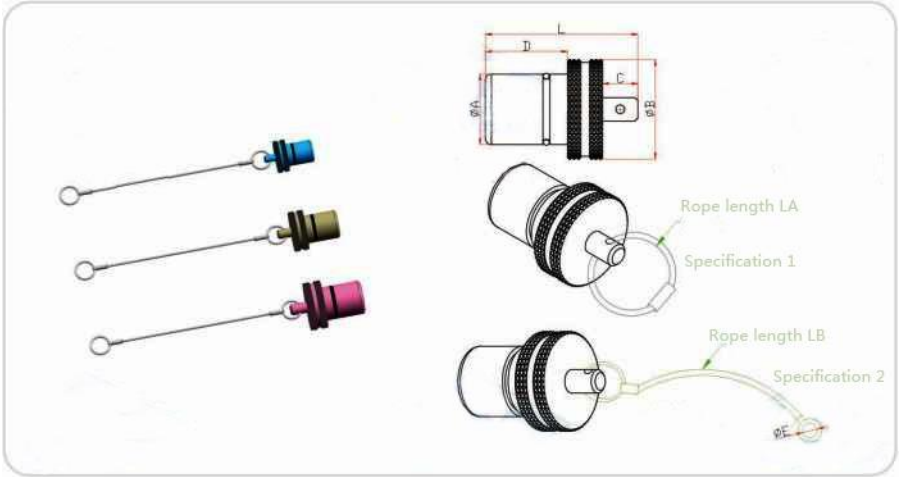
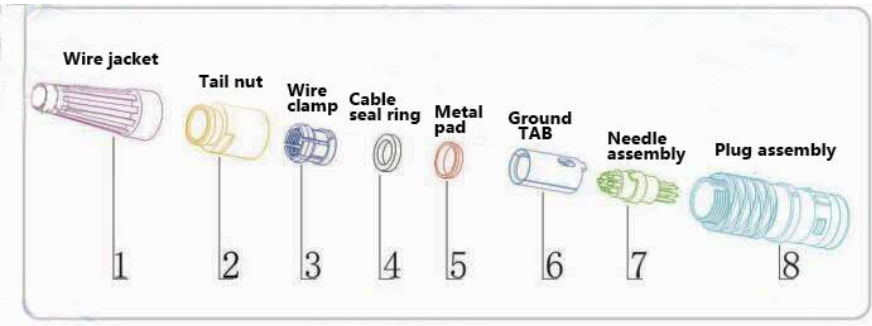
in arrangement and technical characteristics of FZ20 series plug pin assembly															
plug pin assembly welding surface diagram															
View direction															
Number of cores	2	3	4	5	6	7	8	10	12	16	18	19	20	21	26
Contact diameter (mm)	2	1.6	1.3	1.3	1.3	1.3	0.9	0.9	0.7	0.7	0.7	0.7	0.5	0.5	0.5
Rated current (A)	30	17	15	14	12	11	10	8	7	6.5	6	5.5	5	5	2
Operating voltage (DC)	700	800	610	580	450	500	500	500	480	315	280	280	280	280	315
Withstand voltage (AC/V)	2100	2400	1850	1750	1350	1350	1500	1450	1250	950	850	850	850	800	800
Contact resistance normal mΩ	3	4	2.8	2.8	2.8	2.8	4.1	4.1	5.6	5.6	5.6	7.5	7.5	7.5	7.5
Normal insulation resistance (MΩ)	≥3000	≥3000	≥3000	≥3000	≥3000	≥3000	≥3000	≥3000	≥3000	≥3000	≥3000	≥3000	≥3000	≥3000	≥3000
Adapter cable OD (mm)	≤9.2	≤9.2	≤9.2	≤9.2	≤9.2	≤9.2	≤9.2	≤9.2	≤9.2	≤9.2	≤9.2	≤9.2	≤9.2	≤9.2	≤9.2

FZ20 series Insert Pin arrangement and technical characteristics of pinhole assembly															
plug pin assembly welding surface diagram															
View direction															
Number of cores	2	3	4	5	6	7	8	10	12	16	18	19	20	21	26
Contact diameter (mm)	2	1.6	1.3	1.3	1.3	1.3	0.9	0.9	0.7	0.7	0.7	0.7	0.5	0.5	0.5
Rated current (A)	30	17	15	14	12	11	10	8	7	6.5	6	5.5	5	5	2
Operating voltage (DC)	700	800	610	580	450	500	500	500	480	315	280	280	280	280	315
Withstand voltage (AC/V)	2100	2400	1850	1750	1350	1350	1500	1450	1250	950	850	850	850	800	800
Contact resistance normal mΩ	3	4	2.8	2.8	2.8	2.8	4.1	4.1	5.6	5.6	5.6	7.5	7.5	7.5	7.5
Normal insulation resistance (MΩ)	≥3000	≥3000	≥3000	≥3000	≥3000	≥3000	≥3000	≥3000	≥3000	≥3000	≥3000	≥3000	≥3000	≥3000	≥3000
Adapter cable OD (mm)	≤9.2	≤9.2	≤9.2	≤9.2	≤9.2	≤9.2	≤9.2	≤9.2	≤9.2	≤9.2	≤9.2	≤9.2	≤9.2	≤9.2	≤9.2

FZ14/16/20 Series connectors Standard wiring harness



FZ series connector assembly drawing



Model number	dimension							
	A	B	C	D	L	LA	LB	E
LT-FZNR14	10	15	6	11	21	Customer customization	Customer customization	Customer customization
LT-FZNR16	12	17	6	14	26	Customer customization	Customer customization	Customer customization
LT-FZNR20	15	20.5	6	16	30	Customer customization	Customer customization	Customer customization

FZ Series Connector Plastic fittings



Model number	specification	dimension		
		A	B	L
LT-FZZP14	4.2	4.2	8.8	24
	5.2	5.2	8.8	24
LT-FZZP16	4.2	4.2	10.9	30
	5.2	5.2	10.9	30
	6.2	6.2	10.9	30
	7.0	7.1	10.9	30
LT-FZZP20	5.2	5.2	14.4	35.5
	6.2	6.2	14.4	35.5
	7.2	7.2	14.4	35.5
	8.2	8.2	14.4	35.5
	9.2	9.2	14.4	35.5