






# Hirose Circular Connectors

## Waterproof Series







Series Name:					
	JRW	LF07	LF10	LF13	RM-W
Category:	Waterproof, Metal	Waterproof, Metal	Waterproof, Metal	Waterproof, Metal	Waterproof, Metal
Shell Size:	13,16,21,25	7	10	13	12,15,21,24,31
Pin Count:	3,4,5,7,8, 10,16,24	3,6	4,12	11,20	2,3,4,5,6,8,10, 12,15,31,40,55
Housings/ Accessories:	Straight Plug	Straight Plug	Straight Plug	Straight Plug	Straight Plug
	Receptacle (panel mount)	Receptacle (panel mount)	Receptacle (panel mount)	Receptacle (panel mount)	Receptacle (panel mount)
	Cord clamps	Straight jack	Straight jack	Straight jack	Cord clamps
	Dust cap				Dust cap
Contact Plating:	Silver over copper alloy base	Partial gold flash over nickel base	Partial gold flash over nickel base	Partial gold flash over nickel base	Silver over copper alloy base (Also available with gold)
Contact Tail:	Solder cup: Dia = 1.1mm Dia = 1.7mm Dia = 3.4mm	Solder cup: Dia = 0.8mm Dia = 1.5mm	Solder cup: Dia = 0.8mm Dia = 1.7mm	Solder cup: 4 Pos. Dia = 1.7mm 7 Pos. Dia = 0.8mm 20 Pos. Dia = 0.8mm	Solder cup: Dia = 1.1mm Dia = 1.7mm Dia = 2.8mm
Mating Cycle:	500	1000	1000	1000	2000
Rated Current:	5, 10 or 30 Amps depending on position count	3 Pos: 5 Amps 6 Pos: 2 Amps	4 Pos: 10 Amps 12 Pos: 2 Amps	11 Pos: PWR 10 A/ SIG 2A  20 Pos: 2A	5 Amps/ 10 Amps
Waterproof Rating:	<i>IP67</i> Watertight for 48 hours at 1.8m depth	<i>IP68</i> Watertight for 14 days at 2.0m depth	<i>IP68</i> Watertight for 14 days at 2.0m depth	<i>IP68</i> Watertight for 14 days at 2.0m depth	<b>RM12B:</b> Watertight for 48 hours at 1/2m of depth ( <i>IP67</i> ) <b>RM15T</b> or above are designed to be watertight for 48 hours at 1m depth
Shielding:	Yes	Yes	Yes	Yes	No
Locking Mechanism:	Threaded	Bayonet	Bayonet	Bayonet	Bayonet/ Threaded
Panel Thickness:	1.5mm ~ 6.5mm	0.7mm ~ 2.0mm Max.	0.7mm ~ 2.0mm Max.	0.7mm ~ 2.0mm Max.	0.5mm ~ 2.0mm Max.

# Hirose Circular Connectors

## Waterproof Series



Series Name:									
	HR22	HR30	HR24	HR34B					
<b>Category:</b>	Circular waterproof		Circular waterproof		Circular waterproof		Circular waterproof		
<b>Shell Size:</b>	12		6,7,8		8,9		12		
<b>Pin Count:</b>	20		3,6,10,12		4		4,10		
<b>Housings/ Accessories:</b>	Straight Plug		Straight Plug		Straight Plug		Straight Plug		
	Receptacle (panel mount)		Receptacle (panel mount)		Right angle plug		Adjustable Right angle plug		
	Straight Jack	Dust caps		Straight Jack		Receptacle (panel mount)		Receptacle (panel mount)	
				Panel mount plug/ Receptacle					
				Straight Jack		Straight Jack			
				Right angle Jack		Right angle Jack			
		Duct caps		Duct caps					
<b>Contact Plating:</b>	Female: Silver over beryllium copper or phosphor bronze		Female: Gold flash over phosphor bronze		Silver or gold flash over copper alloy base		Female: Gold flash over phosphor bronze		
	Male: Silver over brass or phosphor bronze		Male: Gold flash over brass				Male: Gold flash over copper alloy		
<b>Contact Tail:</b>	Solder cup: Dia = 0.8mm		Solder cup: Dia = 0.6mm Dia = 0.8mm Dia = 1.1mm		Receptacle solder cup: Dia = 1.4mm		Solder cup: Dia = 1mm for 10 Pos Dia = 1.7 and 1.3mm in 4 Pos		
	Crimp: 24-28 AWG		Crimp: 26-30 AWG		Receptacle : Dip available Plugs/ Jacks: Purchased as cable assemblies only		Crimp: 20-25 AWG		
<b>Mating Cycle:</b>	100		1000		500		500		
<b>Rated Current:</b>	2 Amps		2 Amps/ 5 Amps		3 Amps		4 Pos = 5 Amps 10 Pos = 3 Amps		
<b>Waterproof Rating:</b>	IP67 Watertight for 48 hours at 1.8m depth		IP68 Watertight for 14 days at 2.0m depth		IP67 Watertight for 1/2 hour at 1.0m depth		IP68 Watertight for 14 days at 2.0m depth		
<b>Shielding:</b>	Yes		No		No		Yes		
<b>Locking Mechanism:</b>	Threaded		Push-Pull		Threaded		Bayonet		
<b>Panel Thickness:</b>	1.0mm - 3.0mm		3,6 Pos = 0.7 - 2.0mm Max 10,12 Pos = 0.7 - 3.0mm Max		1.0mm - 3.0mm		3.3 for Through hole 5.45 for Wire type		