

HR5 HIROSE ELECTRIC CO., LTD. **Circular Connectors HR10A Series (Cont.)**

No. of Pos.	Description	Digi-Key Part No.	Price Each			Hirose Part No.
			1	10	100	
4	Receptacle for Socket Insert	HR1668-ND	6.64	5.50	4.13	HR10A-7R-4SC(73)
6	Receptacle for Socket Insert	HR1670-ND	6.64	5.50	4.13	HR10A-7R-6SC(73)
10	Receptacle for Socket Insert	HR1677-ND	8.23	7.16	5.73	HR10A-10R-10SC(71)
12	Receptacle for Socket Insert	HR1679-ND	8.74	7.40	5.55	HR10A-10R-12SC(71)
20	Receptacle for Socket Insert	HR1686-ND	15.27	14.37	12.58	HR10A-13R-20SC(73)
10	Jack for Pin Insert	HR1680-ND	14.00	12.95	10.85	HR10A-10J-10PC(73)
12	Jack for Pin Insert	HR1682-ND	14.00	12.95	10.85	HR10A-10J-12PC(73)
20	Jack for Pin Insert	HR1689-ND	25.95	25.09	22.49	HR10A-13J-20PC(73)
4	Jack for Socket Insert	HR1671-ND	10.02	9.27	7.77	HR10A-7J-4SC(73)
10	Jack for Socket Insert	HR1681-ND	14.28	13.21	11.07	HR10A-10J-10SC(73)
12	Jack for Socket Insert	HR1683-ND	13.86	12.83	10.75	HR10A-10J-12SC(73)
20	Jack for Socket Insert	HR1688-ND	25.95	25.09	22.49	HR10A-13J-20SC(73)
PCB Type						
10	Receptacle with Pin Insert	HR358-ND	9.48	8.24	6.60	HR10A-10R-10PB
12	Receptacle with Socket Insert	HR361-ND	11.22	9.76	7.81	HR10A-10R-12SB
20	Receptacle with Socket Insert	HR665-ND*	19.20	18.56	16.64	HR10A-13R-20SB(01)
PCB Type — RoHS Compliant						
4	Receptacle with Pin Insert	HR1607-ND	6.89	5.83	4.38	HR10A-7R-4PB(73)
6	Receptacle with Pin Insert	HR1610-ND	7.62	6.45	4.84	HR10A-7R-6PB(73)
6	Receptacle with Pin Insert	HR1611-ND*	7.83	6.63	4.97	HR10A-7R-6PB(74)
10	Receptacle with Pin Insert	HR1646-ND	9.64	8.38	6.71	HR10A-10R-10PB(71)
12	Receptacle with Pin Insert	HR1649-ND	10.37	9.02	7.22	HR10A-10R-12PB(71)
12	Receptacle with Pin Insert	HR1650-ND	11.56	10.70	8.96	HR10A-10R-12PB(72)
20	Receptacle with Pin Insert	HR1692-ND	17.25	16.68	14.95	HR10A-13R-20PB(73)
4	Receptacle with Socket Insert	HR1605-ND	6.53	5.53	4.15	HR10A-7R-4SB(73)
4	Receptacle with Socket Insert	HR1606-ND	7.07	5.99	4.49	HR10A-7R-4SB(74)
5	Receptacle with Socket Insert	HR1616-ND	6.71	5.68	4.26	HR10A-7R-5SB(73)
6	Receptacle with Socket Insert	HR1608-ND	7.07	5.99	4.49	HR10A-7R-6SB(73)
6	Receptacle with Socket Insert	HR1609-ND*	7.83	6.63	4.97	HR10A-7R-6SB(74)
10	Receptacle with Socket Insert	HR1644-ND	8.72	7.58	6.07	HR10A-10R-10SB(71)
10	Receptacle with Socket Insert	HR1645-ND*	9.64	8.38	6.71	HR10A-10R-10SB(72)
12	Receptacle with Socket Insert	HR1647-ND	9.06	7.88	6.31	HR10A-10R-12SB(71)
12	Receptacle with Socket Insert, Stamped Dip Post. (0.2mm x 0.5mm)	HR1648-ND*	11.45	9.96	7.97	HR10A-10R-12SB(72)
12	Receptacle with Socket Insert, Machined Dip Post. (0.55mm)	HR1651-ND*	28.05	27.12	24.31	HR10A-10R-12SD(72)
20	Receptacle with Socket Insert	HR1690-ND	17.25	16.68	14.95	HR10A-13R-20SB(73)
20	Receptacle with Socket Insert	HR1691-ND*	19.20	18.56	16.64	HR10A-13R-20SB(74)
Threaded Coupling, Solder Cup Type						
12	Plug with Pin Insert	HR371-ND	19.65	19.00	17.03	HR10A-10WTP-12P
12	Plug with Pin Insert	HR673-ND*	20.70	20.01	17.94	HR10A-10WTP-12P(01)
20	Plug with Pin Insert	HR382-ND	36.60	35.38	31.72	HR10A-13TPD-20P
12	Plug with Socket Insert	HR366-ND	19.95	19.29	17.29	HR10A-10TPA-12S
12	Jack with Socket Insert	HR363-ND	15.90	15.37	13.78	HR10A-10TJ-12S
Threaded Coupling, Solder Cup Type — RoHS Compliant						
6	Plug with Pin Insert	HR1619-ND	15.45	14.94	13.39	HR10A-7TP-6P(73)
6	Plug with Pin Insert	HR1620-ND*	15.90	15.37	13.78	HR10A-7TP-6P(74)
12	Plug with Pin Insert	HR1653-ND	19.50	18.85	16.90	HR10A-10TP-12P(73)
12	Plug with Pin Insert	HR1709-ND	19.80	19.14	17.16	HR10A-10WTP-12P(73)
12	Plug with Pin Insert	HR1710-ND*	20.85	20.16	18.07	HR10A-10WTP-12P(74)
20	Plug with Pin Insert	HR1706-ND	37.05	35.82	32.11	HR10A-13TPD-20P(73)
20	Plug with Pin Insert, No Teflon Washer	HR1707-ND*	36.54	34.72	32.63	HR10A-13TPD-20P(74)
12	Plug with Socket Insert	HR1656-ND	20.25	19.58	17.55	HR10A-10TPA-12S(73)
12	Plug with Socket Insert	HR1657-ND*	21.75	21.03	18.85	HR10A-10TPA-12S(74)
12	Plug with Socket Insert	HR1713-ND	19.50	18.85	16.90	HR10A-10WTP-12S(73)
12	Plug with Socket Insert	HR1714-ND*	21.15	20.45	18.33	HR10A-10WTP-12S(74)
20	Plug with Socket Insert	HR1708-ND	45.92	43.63	41.00	HR10A-13TPD-20S(74)
12	Receptacle with Pin Insert, 0.8mm Diameter Solder Cups	HR1716-ND	15.75	15.23	13.65	HR10A-10WTR-12P(74)
6	Receptacle with Socket Insert	HR1581-ND	16.35	15.81	14.17	HR10A-7TR-6S(73)
12	Receptacle with Socket Insert	HR1658-ND	12.80	11.84	9.92	HR10A-10TR-12S(73)
12	Receptacle with Socket Insert	HR1712-ND	15.18	14.29	12.51	HR10A-10WTR-12S(73)
12	Jack with Socket Insert	HR1655-ND	16.05	15.52	13.91	HR10A-10TJ-12S(73)
12	Jack with Pin Insert	HR1662-ND	17.70	17.11	15.34	HR10A-10TJ-12P(73)
Threaded Coupling, Crimp Type (contacts sold separately) RoHS Compliant						
12	Plug for Pin Insert, Crimp Type	HR1659-ND	18.75	18.13	16.25	HR10A-10TP-12PC(73)
12	Recept. for Socket Insert, Crimp Type	HR1660-ND	12.16	11.25	9.43	HR10A-10TR-12SC(73)
20	Recept. for Socket Insert, Crimp Type	HR1701-ND	17.25	16.68	14.95	HR10A-13TR-20SC(73)
Threaded Coupling, PCB Type — RoHS Compliant						
—	Dust Cap for 4-6 Position Receptacle	HR345-ND	3.07	2.55	1.91	HR10-7R-C
—	Dust Cap for 10-12 Position Recept.	HR349-ND	3.07	2.55	1.91	HR10-10R-C
—	Dust Cap for 20 Position Receptacle	HR381-ND	3.28	2.72	2.04	HR10A-13R-C
Threaded Coupling, PCB Type — RoHS Compliant						
6	Receptacle with Socket Insert	HR1617-ND	15.01	14.13	12.37	HR10A-7TR-6SA(73)
6	Receptacle with Socket Insert	HR1618-ND*	15.74	14.82	12.97	HR10A-7TR-6SA(74)
12	Receptacle with Socket Insert	HR1654-ND	12.88	11.92	9.99	HR10A-10TR-12SB(73)
12	Receptacle with Socket Insert	HR1711-ND	15.18	14.29	12.51	HR10A-10WTR-12SB(73)
20	Receptacle with Socket Insert	HR1704-ND	21.00	20.30	18.20	HR10A-13TR-20SB(73)
20	Receptacle with Socket Insert	HR1705-ND*	23.10	22.33	20.02	HR10A-13TR-20SB(74)
12	Receptacle with Pin Insert	HR1661-ND	12.88	11.92	9.99	HR10A-10TR-12PB(73)
12	Receptacle with Pin Insert, 0.55mm Diameter Machined Dip Posts	HR1715-ND*	17.70	17.11	15.34	HR10A-10WTR-12PA(74)
20	Receptacle with Pin Insert	HR1702-ND	21.00	20.30	18.20	HR10A-13TR-20PB(73)
20	Receptacle with Pin Insert	HR1703-ND*	23.10	22.33	20.02	HR10A-13TR-20PB(74)

* Gold Plated

No. of Pos.	Description	Digi-Key Part No.	Price Each			Hirose Part No.
			1	10	100	
Crimp Pins and Sockets — RoHS Compliant						
—	Male Pin, Crimped, Gold	HR450-ND	—	28	.16	HR10-PC-111
—	Female Socket, Crimped, Gold	HR452-ND	—	30	.17	HR12-SC-111
—	Male Pin, Crimped, Silver	HR451-ND	—	23	.13	HR10-PC-112
—	Female Socket, Crimped, Silver	HR453-ND	—	24	.14	HR12-SC-112
Tools						
—	Hand Contact Crimp Tool	HR497-ND	—	651.70/1	—	HR12-SC-TC
—	Hand Cable Crimp Tool	H9974-ND	—	332.50/1	—	HR10A-TC-02
—	Extraction Tool for Female Sockets	HR498-ND	—	13.00/1	—	HR12-SC-TP
—	Extraction Tool for Male Pins	HR499-ND	—	8.06/1	—	RP6-SC-TP

* Gold Plated

HR34B Series

User-Friendly Auto Locking Connectors



Features:

- User-friendly auto locking mechanism designed for easy operation
- Quick mating and unmating
- Provides security against vibration, shocks and pulling on the cable
- IP67 Waterproof
- 4 and 10 pins available

Applications:

- Servo motor
- FA robots
- CNC machines
- Telecom equipment

Specifications:

- **Rated Voltage:** 30VAC, 42VDC (10 pin); 200VAC (4 pin)
- **Withstand Voltage:** 900VAC (10 pin); 2000VAC (4 pin)
- **Insulation Resistance:** 1000MΩ minimum
- **Rated Current:** 3A (10 pin); 5A (4 pin)
- **Applicable Wire:** Up to 24AWG (10 pin); Up to 20AWG (4 pin)

Dim. in mm

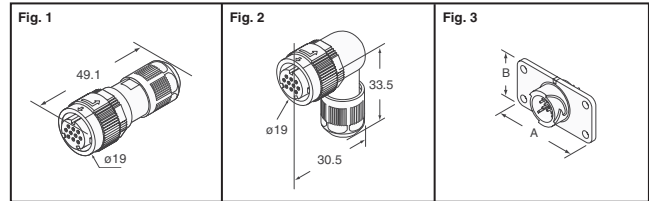


Fig.	No. of Pos.	Description	Dim. (mm)		Digi-Key Part No.	Price Each			Hirose Part No.
			A	B		1	10	100	
Plug									
1	4	Straight, Solder, Female Contacts	—	—	HR1914-ND	14.20	13.36	11.69	HR34B-12WPD-4S
	4		HR1915-ND	14.20	13.36	11.69	HR34B-12WPE-4S		
	10		HR1908-ND	15.90	15.37	13.78	HR34B-12WPA-10S(71)		
	10		HR1910-ND	15.90	15.37	13.78	HR34B-12WPB-10S(71)		
2	10	Right Angle, Solder Female Contacts	—	—	HR1909-ND	16.80	16.24	14.56	HR34B-12WLP-10S(71)
	10		HR1911-ND	16.80	16.24	14.56	HR34B-12WLPB-10S(71)		
Receptacle									
3	4	Wall Mount, Solder, Male Contacts	25.4	25.4	HR1913-ND	10.12	8.80	7.04	HR34B-12WRB-4P
	10		HR1907-ND	10.32	9.55	8.00	HR34B-12WR-10P(71)		
	10		HR1912-ND	8.74	7.60	6.08	HR34B-12WRA-10P		

MXR Series - Circular Connectors

Miniature Push-Pull Connectors with Ground Function

MXR type connectors are miniature, lightweight, push-pull lock connectors with a ground function which has been developed for use with VTR camera and system camera interfaces.

- Features:**
- The single action push-pull lock function allows quick connections and disconnections as well as high density mounting
 - Verification of a secure engagement is afforded by a click sound which exemplifies the fine feel of this lock system
 - Use of aluminum alloy for the shell has contributed to the lightweight design
 - One of the three conductors makes contact before the others in this sequenced design.

- Specifications:**
- **Withstand Voltage:** 300VAC for 1 minute
 - **Current Capacity:** 2A
 - **Insulation Resistance:** 1000MΩ or greater at 100VDC
 - **Contact Resistance:** 20mΩ or less at 1A AC
 - **Solder Pot Diameter:** 0.9mm diameter
 - Applications:** VTR cameras, system cameras, audio equipment, etc.
 - Materials:** • **Shell:** Aluminum alloy, nickel plating
 - **Insulation:** PBT resin, black, UL94V-0
 - **Male Pins:** Brass, gold plating
 - **Female Pins:** Phosphor bronze, partial gold plating

Dim. in mm

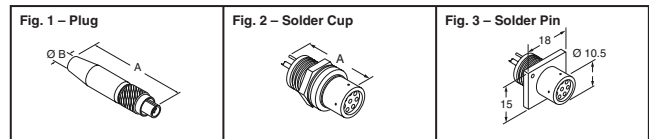


Fig.	No. of Pos.	Description	Dim. (mm)		Digi-Key Part No.	Price Each				Hirose Part No.
			A	B		1	10	50	100	
Plug — RoHS Compliant										
1	4	Bushing, Black	47	5	HR1822-ND	15.73	14.80	13.42	12.95	MXR-8PA-4PB(71)
	6		HR1823-ND	16.18	15.24	13.81	13.33	MXR-8PA-6PB(71)		
	8		HR1824-ND	15.83	14.90	13.50	13.04	MXR-8P-8P(71)		
	8		HR1825-ND	16.07	15.12	13.71	13.23	MXR-8P-8P(72)		
Receptacles										
2	4	Solder Cup	19.3	—	HR1827-ND	9.29	8.08	7.28	6.47	MXR-8RA-4S(71)
	6		HR1828-ND	9.29	8.08	7.28	6.47	MXR-8RA-6S(71)		
	8		HR1829-ND	10.99	9.56	8.61	7.65	MXR-8RA-8S(71)		
3	3	Solder Pin	—	—	HR623-ND	9.52	8.28	7.46	6.63	MXR-8R-3SA
	3		HR1830-ND	8.30	7.22	6.50	5.78	MXR-8R-3SA(71)		
	4		HR1831-ND	8.63	7.50	6.75	6.00	MXR-8R-4SA(71)		
	6		HR1832-ND	9.11	7.92	7.13	6.34	MXR-8R-6SA(71)		
Tools										
		Tool, Tightening Jig	H9988-ND			199.50/1			MXR-8P-T01	
		Tool, Cable Crimper	H9989-ND			305.90/1			HR10A-TC-04	

◆ RoHS Compliant