

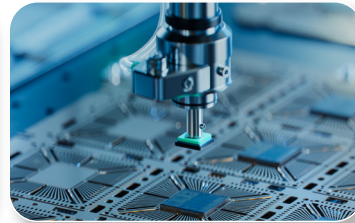
Applications



Industrial Robots



Machine Tools



Semiconductor



Compact



Push On Bayonet



Water Proof

Discover Hirose's HR22K Series, a compact, waterproof, push-on bayonet lock connector built for reliable performance in challenging industrial environments

Meet Hirose Electric's HR22K Series: A compact, waterproof, and oil-resistant connector with a push-on bayonet lock. Engineered with an IPX7 rating (when mated) and spiral strain relief for added durability, the HR22K ensures secure and efficient connections in harsh industrial environments.

KEY FEATURES OF THE HR22K SERIES INCLUDE:

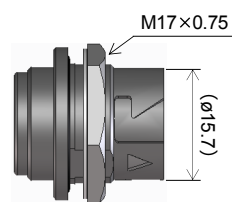
- Push-on bayonet lock offers quick, secure connections with easy push-to-mate and rotate-to-release functionality.
- IPX7-rated when mated, with excellent water and oil resistance, ensuring durability in harsh environments.
- Spiral strain relief protects cables from bending damage, improving flexibility for tight spaces.
- CAT5e performance supports high-speed data transmission for industrial systems.
- Rated for 2A and 140V DC, ideal for demanding power and data applications.



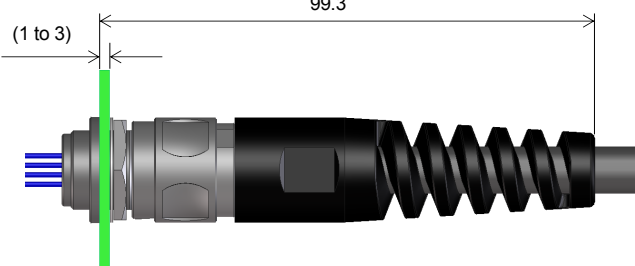
Dimension

RECEPTACLE

HR22K-12WBR-20PC

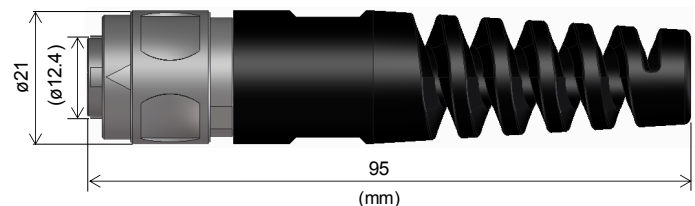


MATED



PLUG

HR22K-12WBP-20SC



Compact, Robust Design with
Metal Shell / Crimp Type

Applicable Cable

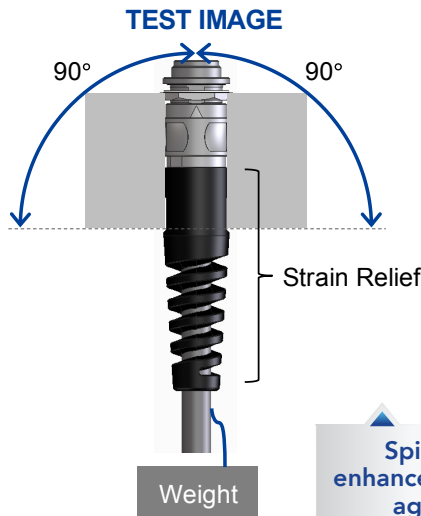
Conductor	24 to 28 AWG
Jacket Dia.	ø1.15mm Max.
Sheath Outer Dia.	ø9.5

CLICK HERE
FOR MORE INFORMATION

CLICK HERE TO ORDER
SAMPLE NUMBER:
US-HR22KSAMPLE-24

Bending Durability

Spiral strain relief cable designed for excellent bending durability, accommodating the flexibility of the cable.



Test Method

Flexion Angle	Left and Right 90° Each
Flexion Speed	40 Times/min.

Test Result

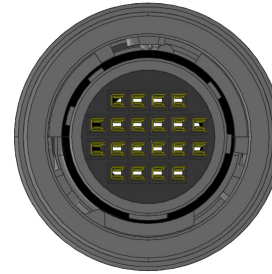
→ **No strain relief broken, even with 1 million bends.**

Spiral strain relief enhances cable protection against bending.

*Flexion performance depends on the cable specifications.

High Speed Transmission

Termination Conditions

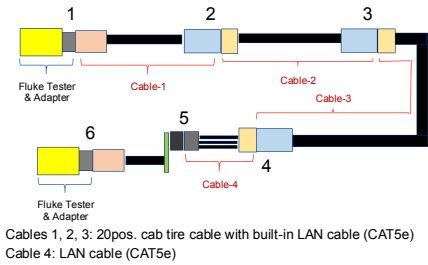


Supports Cat.5e (1Gbps) High Speed Transmission

*Based on End to End Link Class D 6-Conn E3
*Characteristics depend on pin assignment, cable specifications and cable assembly conditions. Please check prior to use.



Connection Points



Specifications

Material and Finish

COMPONENT		MATERIAL	FINISH, REMARKS
Plug	Outer Shell	Zinc Alloy	Nickel Plating
	Strain Relief	PA Resin	Black
	Insulator, Washer	PBT Resin, PA Resin	Black
	Contact	Crimp	Phosphorous Bronze
		Solder	Brass / Phosphorous Bronze / Beryllium Copper
	Gasket, O-ring	Hydrogenated Nitrile Rubber	Black
Receptacle	Outer Shell	Zinc Alloy	Nickel Plating
	Insulator	PBT Resin	Black
	Contact	Crimp	Phosphorous Bronze
		Solder	Brass / Phosphorous Bronze / Beryllium Copper
	Earth Contact Spring	Phosphorous Bronze	Nickel Plating
	O-ring	Hydrogenated Nitrile Rubber	Black

Performance Characteristics

Rated Current	2A
Rated Voltage	100V AC, 140V DC
Operating Temperature	-25 to +85°C
Contact Resistance	20mΩ Max. (1A DC)
Withstanding Voltage	300V AC for 1 min.
Insulation Resistance	1,000MΩ Min. (500V DC)
Mating Durability	100 times

- RoHS Compliant



For additional information please visit:
www.hirose.com/product/series/HR22K

Specifications herein are subject to change without notice.
Contact Hirose for latest specifications, drawings, or availabilities.

STAY CONNECTED

