Welcome to the introduction to **HRS Waterproof Connector Series** Product Training Module. The goal of this training module is to show the variety of waterproof connectors that are available from Hirose and to explain the features of each.
Hirose Electric offers several IP67 and IP68 rated waterproof circular connector series which are available in plastic, or metal housings. This module will provide an overview of the HR30, HR34B, LF, RM-W, JR-W and HR22 products.
The HR30 series is a miniature waterproof plastic connector series. When mated or used with a protective cap, it offers complete protection against dust and water submersion up to 1 meter for 30 minutes. It has a user friendly push pull locking mechanism. The connectors are lightweight and corrosion resistant with solder or crimp contacts.
The LF series is a small waterproof connector series with metal shielding. It features a robust bayonet locking system and is waterproof while in the mated condition when submerged in up to 1.8 meters of water for 48 hours. The LF07 connectors are available in 3 and 6 positions. The LF10 connectors are available in 4 and 12 positions and the LF13 connectors are available in 11 and 20 positions.
The HR34B series is a quick mating small waterproof circular connectors that features a self-locking bayonet collar. The mated connectors are designed to pass a water submersion test for 48 hours at the depth of 1.8 meters. Plugs are available in straight and right-angle configurations which allow the cable to exit in 8 direction, in 45 degree increments.
The RM-W is a high performance waterproof circular connector series which meets the requirements of IP67 when submerged for 48 hours at a depth of 1.8 meters. It offers a wide range of pin counts and 3 types of plug configurations, straight/long back shell, straight/short back shell, and right angle back shell. Waterproof receptacles come in front, back or flange panel mounting.
The JR series is another high performance waterproof circular connector that is IP67 rated when submerged for 48 hours at a depth of 1.8 meters. The metal housings are plated with black chromium to prevent corrosion, and are available up to shell size 15. Current capacity is 5A to 30A depending on pin count and shell size.
The HR22W series is an IP67 circular connector that is waterproof for 48 hours when submerged at a depth of 1.8 meters. These connectors provide a reliable connection while offering several variations. A locking mechanism that is designed to stay engaged and the ability to quickly mount them makes this an excellent connector. It has a current capacity of 2 amps and a 21 mm maximum plug diameter to make this a high density option.
Marine GPS, Wireless terminals, mobile GPS, portable analyzer, and mobile terminals are all applications for the HR30 and LF series.
The HR34B and HR22W series are ideal for applications where the connectors might be exposed to oil or excessive vibration. Typical applications include construction and industrial equipment, robots, and servo motors.
Factory automation, robotic equipment, base stations, and construction equipment are some examples of applications the RM-W and JR-W series of connectors could be used in.
In summary, Hirose offers several IP68 and IP67 rated, waterproof connectors in a wide variety of styles and configurations.