



Everything You Need to Know About elocab HPF Clock Spring Assembly

What is an elocab HPF (High Performance Flex Cable)?

HPF stands for elocab's High Performance Flex cables. It enables the end user to configure the cable for whatever the application demand, including up to 150 million flex cycles.

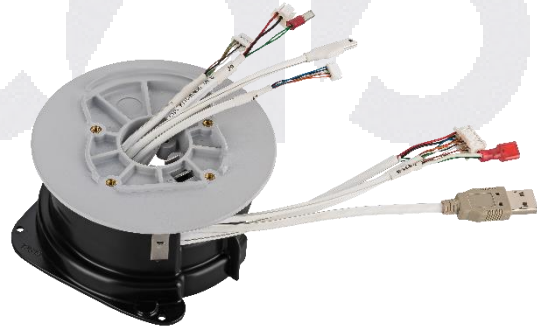
A wide range of components can be designed into HPF cables. Examples include:

- Twisted copper pairs and multi-conductor hybrid cores
- Coaxial cables and components for flexing applications
- Ethernet, Cat5e, Cat6A, Cat7 and other protocol cores available
- Fiber optic components
- Tubing/lumens for air, water, ink
- Custom component design
- Drive control
- USB 3.2



What is Clock-spring assembly?

You may not notice that you may operate a clock-spring assembly almost every day. It is in the steering wheel of your car. In vehicle steering systems, a clock-spring is a the spiral-wound special rotary electrical connector which allows a vehicle's steering wheel to turn while still making an electrical connection between the steering wheel airbag and the vehicle's horn, and other devices and the vehicle's electrical systems.



A clock-spring generally consists of a flat multicore cable a wound in a spiral shape similar to a clock-spring, hence the name.

When do you need Clock-spring assemblies?

Like the steering wheel in a car, a clock-spring assembly may be the right solution if you have a back-and-forth circular rotation part or component in your device or system and need electrical and other connections between the rotation part and the rest of your device.



When you choose an elocab HPF clock-spring assembly, you will benefit from both HPF cable and clock-spring assembly. HPF clock-spring assemblies

have been used in surgical robots, warehouse systems, material handling devices and other industrial systems.

What is included in an HPF Clock-spring assembly?

The custom-designed HPF will meet all your connection needs, including power, control/signal wires, data cables, and air/liquid tubes. In addition, the clock-spring can achieve the required rotation range with millions of flex cycles.

Finally, the connectors/terminals at both ends of the cable can be installed in the clock-spring assemblies.

Design input of HPF Clock-spring assembly.

If you feel HPF clock-spring assembly may be the right solution, contact us for review. Our experienced engineers will assist you and develop unique cable and assembly work just for you. To start the design and development process, the information below is required.

- The components needed in the HPF cable.
- The required rotation range.
- The allowed space for clock-spring installation.
- The connector/terminal information.

When you need HPF cables installed in your device or system, please get in touch with us for a review. Our experienced custom cable engineers will assist you and find the best solution.

Contact the team today to learn how BizLink can help you on your next project!

Call (+1) 519-893-1155 or email bca_sales@bizlinktech.com

