



PREMO-FLEX

ROUND FLAT CABLE (RFC) SOLUTIONS ➤

PRODUCT OVERVIEW

Enabling the use of flexible cable jumpers in compact applications requiring robust connections, Premo-Flex RFC Jumpers and RFC Hybrid Jumpers deliver high mechanical strength, reduce costs by eliminating connectors and wire stripping, and improve design flexibility.

SOLVING INDUSTRY CHALLENGES

INDUSTRY CHALLENGE	PRODUCT SOLUTION
RELIABLE CONNECTIONS FOR HARSH ENVIRONMENTS Designers need consistent connectivity in applications subject to high vibration, high shock and dynamic forces.	Premo-Flex RFC Jumpers and RFC Hybrid Jumpers deliver secure and highly consistent connectivity, to help prevent mechanical disconnection by utilizing wave soldering that enable through-hole attachment to the PCB.
REDUCING MATERIAL COSTS Manufacturers are looking for ways to reduce material costs, streamline inventory requirements and procurement, and simplify assembly operations.	By using Premo-Flex RFC Jumpers, manufacturers can eliminate the cable-to-board connector and the need for wire stripping. This saves on material costs, simplifies the bill of materials (BOM), reduces inventory and procurement requirements, and speeds assembly operations.


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FEATURES AND ADVANTAGES

**DELIVERS A ROBUST AND RELIABLE CONNECTION TO THE BOARD**

The round flat cable design uses a wave-soldered through-hole connection to the board, offering superior signal integrity and high resistance to vibration and bending forces.

**ENHANCES DESIGN FLEXIBILITY FOR WIRE-TO-BOARD APPLICATIONS**

Cable options include straight RFC round-to-round connections or RFC Hybrid round-to-flat designs, with zero insertion force (ZIF) and low insertion force (LIF) Easy-On PCB connectors available for RFC Hybrid solutions.

**REDUCES ASSEMBLY AND MATERIAL COSTS**

The directly soldered attachment method eliminates the need for connectors or wire stripping, simplifying assembly operations.

**ENABLES USE IN HIGH-TEMPERATURE ENVIRONMENTS**

Standard products are rated up to +105°C. Custom solutions are available up to +125°C (with polyimide or aramid tape).

APPLICATION SPOTLIGHT

PROVIDING COMPACT, HIGH-STRENGTH ELECTRICAL CONNECTIVITY BETWEEN THE FLEXIBLE JUMPER AND THE BOARD

Automotive, consumer and mobile device applications require excellent electrical performance; miniaturized package sizes; and robust, highly reliable connections capable of withstanding mechanical stress and vibration. Premo-Flex RFC Jumpers and RFC Hybrid Jumpers deliver consistent electrical performance and conserve space in compact applications by eliminating the cable-to-board connector.

| Cameras

| Handheld gaming devices

| Phones

| Automotive LCD displays

| Vehicle infotainment systems

| Virtual cockpits

| Notebooks

| Televisions

ORDERING INFORMATION

Series	15061 (Hybrid and Standard)
Pitch (mm)	1.00
Max. Current (A) per Contact	1.25 (at 20°C)
Operating Voltage	60V AC
Board Attachment	Through-hole solder; RFC Hybrid only: Easy-On connector in series 52207, 52271, 52610, 52808, 52793, 52852, 52806, 52807
Plating	Tin
Circuits	2 to 50
Pin Wire Size	28 AWG (0.32mm)
Jumper Length	25 to 305mm
Operating Temperatures	-40 to +105°C (For higher-temperature solutions up to +125°C, contact Molex for custom options.)