



## MCP HYBRID COAX CONNECTORS

MCP hybrid coax connectors utilize existing unsealed MCP connectors to provide a coaxial data connection up to 9 GHz and 9 signal/power MCON 1.2 CB terminals to enable the implementation of high-resolution cameras within trucks and buses.

Designed for unsealed firewall, bulkhead passthrough applications with MCP housing, the MCP hybrid coax connectors enable a hybrid power and coax signal for camera and antenna applications.

These commercial vehicle connectors utilize our widely available and industry proven MCON 1.2 clean body (CB) terminals and TE's MATEax terminals for reliable quality and performance. The connector design is easy to assemble in existing firewall frames which provides potential cost and time savings for customers who are making upgrades to their vehicle designs. A hybrid design with both coaxial data and power in one connection offers increased design flexibility and can help save space.

### PRODUCT BENEFITS

- Easy to integrate into existing firewall frames and suitable with MCP housing
- Use for high resolution camera connections and digital protocols including GMSL II
- Uses miniature coax terminals, MATEax supporting RTK031, RG174 and RTK044 cable types
- Reliable performance and easy termination with the use of up to 9 MCON 1.2 CB terminals which can support up to 17 amps each
- Flexibility with hybrid signal and power design that can also help save space

### APPLICATIONS

TE Connectivity's MCP Hybrid Coax Connectors can be used in vehicle firewalls

#### In-cabin Applications:

- Camera
- Telemetry units
- V2X
- Antennas
- Firewall

#### Chassis Applications:

- Camera
- Telemetry units
- Antennas
- GPS

## MCP Hybrid Coax Connectors

### PRODUCTS

Plug housing assemblies	11 position (2 MATE-AX + 9 MCON 1.2 CB)
Receptacle housing assemblies	11 position (2 MATE-AX + 9 MCON 1.2 CB)

### SPECIFICATIONS

Product Specification	108-160086
Application Specification	114-160052
Variants	In-line wire-to-wire bulkheads
Temperature Range	-40°C to +125°C
Signal Performance	up to 9 GHz
Terminal System	9x MCON 1.2 (Ethernet) and 2x MATE-AX (coax)
Housing	MCP

### CONNECTORS

Configuration Description	Key	Color	Tab HSG	Rec HSG
			Housing assembly	Housing assembly
11POS, HYBRID	A	Black	2377861-1	2377860-1
11POS, HYBRID	B	Grey	2377861-2	2377860-2
11POS, HYBRID	C	Green	2377861-3	2377860-3
11POS, HYBRID	D	Blue	2377861-4	2377860-4

### TERMINALS

RG174: MATE-AX Components		Application Specification
2298508-1	Pin Contact, Mate-Ax, RG174	114-94413
2298506-1	Pin Sub-Assy, Mate-Ax, RG174	
2298496-1	Socket Contact, Mate-Ax, RG174	
2298494-1	Socket Sub-Assy, Mate-Ax, RG174	
2298509-1	Ferrule, Mate-Ax, RG174	
RTK031: MATE-AX Components		Application Specification
2298121-1	Socket Center Contact, Mate-Ax, RTK031	114-94413
2298116-1	Socket Subassy, Outer Contact, Mate-Ax, RTK031	
2298126-1	Inner Ferrule, Mate-Ax, RTK031	
2298125-1	Pin Center Contact, RTK031	
2298123-1	Pin Sub-Assembly, RTK031	

MCON 1.2 Terminal Crimp Tool Part Number 114-18464

### ABOUT TE CONNECTIVITY

TE Connectivity is a global industrial technology leader creating a safer, sustainable, productive, and connected future. Our broad range of connectivity and sensor solutions, proven in the harshest environments, enable advancements in transportation, industrial applications, medical technology, energy, data communications, and the home. With more than 85,000 employees, including over 8,000 engineers, working alongside customers in approximately 140 countries, TE ensures that EVERY CONNECTION COUNTS. Learn more at [www.te.com](http://www.te.com) and on LinkedIn, Facebook, WeChat and Twitter.

### LET'S CONNECT

We make it easy to connect with our experts and are ready to provide all the support you need. For additional information or product assistance, please contact your field representative or our customer service department. Additional data connectivity information is also available on the website [here](#).

To learn more about other related products, visit the [MCON Interconnection Systems webpage here](#) or the [MATE-AX Miniaturized Coaxial Connectors here](#).

### TECHNICAL SUPPORT

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