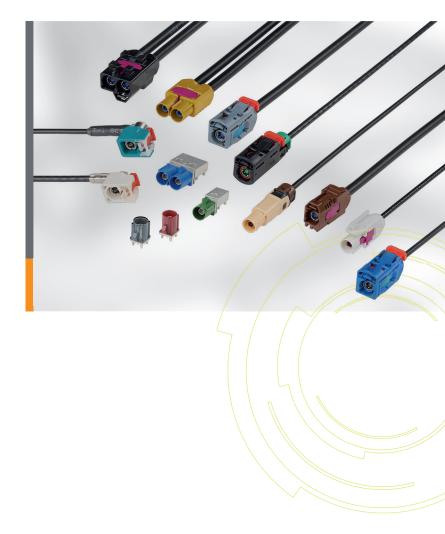


FAKRA Automated Coax Connector System

Enabling RF performance up to 6 GHz for the automotive industry



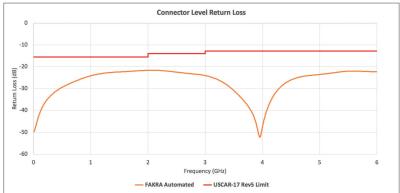
FAKRA Automated Coax Connector System

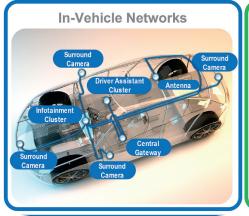
Enabling RF performance up to 6 GHz for the automotive industry

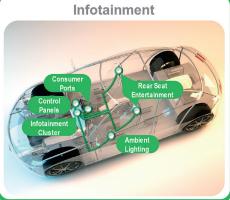
TE Connectivity's (TE's) next generation FAKRA Automated RF connectors are designed for harsh environments and can transmit RF signals up to 6 GHz. This new interconnection system is an automotive-grade design offering reliability plus affordability with the manufacturing process advantage of full automation.

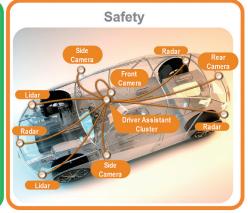
FAKRA Automated offers safe and reliable processes for high-speed data, leveraging our decades of experience with FAKRA components, terminals and cable assemblies. These robust connectors are designed for tomorrow's RF requirements, supporting a variety of automobile applications such as in-vehicle networks, infotainment and safety domains.

FAKRA Automated was designed to meet or exceed ISO 20860-1 (50 Ohms Impedance RF Connection System Interface), SAE/USCAR-17, SAE/USCAR-18, and SAE/USCAR-2 (Performance specifications for Automotive RF Connector Systems).









V2X Traffic info Vehicle tracking Touch screen control panel Vehicle dashboards Human Machine Interfaces (HMI) Surround view cameras
Automated emergency braking
Lane assist

Benefits

- · Optimized for automated manufacturing
- Full product family with 14 key codes, sealed, unsealed, 180° and 90°
- CPA capable
- · Reduced cost and price
- RF performance up to 6 GHz
- · Primary and secondary locks
- Tulip contact / anti-stubbing
- Housing inner ring / anti-scooping
- Global manufacturing

Applications

- On-board diagnostics (V2X)
- 360 degree surround view camera
- Advanced Driver Assistance Systems (ADAS)
- In-vehicle networks
- 5G
- Dual Band Wi-Fi

Market Compatability*

- Serializer/Deserializer (SerDes)
- GMSL2/3
- FPD-Link IV
- APIX3
- *) Protocols supported with appropriate cable

FAKRA and USCAR are trademarks

FAKRA Automated Header Portfolio

	Description	TE PN	Specifications
G	1 pos 180 deg	X-2203452-X	Product Specification: 108-18079 Application Specification: 114-32108
	1 pos 90 deg	X-2291392-X	
	1 pos 90 deg with shield	X-2209201-X	Product Specification: 108-132071 Application Specification: 114-101020
	1 pos 90 deg edge mount	X-2287906-X	
	2 pos 180 deg	X-2272788-X	Product Specification: 108-32058 Application Specification: 114-32108
	2 pos 180 deg edge mount	X-2287923-X	

xxx-1 Code A / xxx-2 Code B / refer customer drawings for further codings

Female Connector Portfolio

		Description	TE PN	Specifications
Unsealed	6	180 deg single	X-2289729-X* X-2203573-X#	Product Specification: 108-32137 Application Specification: 114-32145 Product Specification: 108-94089 Application Specification: 114-32217
	00	180 deg dual	X-2289731-X* X-2203577-X#	
		90 deg single	X-2291859-X*	
Sealed		180 deg single	X-2307206-X*	Product Specification: 108-94631 Application Specification: 114-32145
		90 deg single	X-2298733-X*	Product Specification: 108-162005 Application Specification: 114-162005

Male Connector Portfolio

		Description	TE PN	Specifications
Unsealed	100	180 deg single	X-2203571-X*	Product Specification: 108-32137
	00	180 deg dual	X-2203575-X*	Application Specification: 114-32145
Sealed		180 deg single	X-2307198-X*	Product Specification: 108-2129 Application Specification: 114-18622

- * CPA variant; part number is housing only.
- * Non-CPA variant; part number is housing only.

Refer FAKRA catalog (PN 1308073-3) on clip slot variants, center contacts, sub-assemblies, and ferrules.

xxx-1 Code A / xxx-2 Code B / refer customer drawings for further codings.

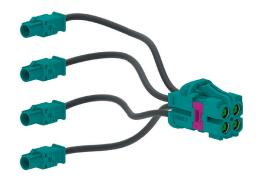
Next Generation of Coax: Miniaturized Terminals

TE Connectivity's MATE-AX miniaturized coax terminal provides the industry with 9 GHz RF performance and more in much smaller, lighter layouts. A 4-terminal MATE-AX connector is 75% smaller and 34% lighter than a 4-terminal FAKRA connector.

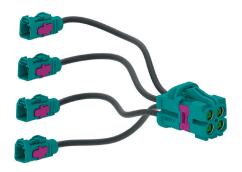
TE's MATE-AX terminals are designed to be compatible with existing coax cables, and by using a fully automated crimping process the same cable type can be terminated with FAKRA on one end and MATE-AX on the other.

For further information on MATE-AX, please contact our TE experts below.

MATE-AX Cable Assembly: Examples



4x FAKRA Jack - 4 pos. Plug



4x FAKRA Plug - 4 pos. Plug

For further information please contact:

Benjamin Ervin
Product Manager FAKRA
Email: ben.ervin@te.com

Nikhil Kakanavaram
Field Application Engineer
Electrical Components

Email: nikhil.kakanavaram@te.com

TE Connectivity 2901 Fulling Mill Road Middletown, PA 17057 USA

Product Information Center:
Phone: +1 800-522-6752
Fax: +1 717-986-7575

www.TE.com

© 2019 TE Connectivity | All rights reserved.

MATE-AX, TE, TE Connectivity, and TE connectivity (logo) are trademarks. FAKRA and USCAR are trademarks.

 $Other\ logos,\ product (s)\ and/or\ company\ names\ might\ be\ trademarks\ of\ their\ respective\ owners.$

While TE Connectivity (TE) has made every reasonable effort to ensure the accuracy of the information in this catalog, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. TE reserves the right to make any adjustments to the information contained herein at any time without notice. TE expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The specifications in this catalog are for reference purposes only and are subject to change without notice. Consult TE for the latest dimensions and design specifications.

2-1773982-4 | USL | Published 11-2019

