



MCA - MINI COAX AUTOMOTIVE

Miniaturized multi-pole RF- & highspeed data solution

- » Compact design solutions
- » High speed data transmission up to 20 Gbit/s
- » Excellent radio frequency (RF) performance up to 15 GHz
- » Scalable multi-pole connections



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Miniaturized multi-pole RF-solution & highspeed data solution

The newly developed MCA series by IMS Connector Systems complies with the high requirements set by the automotive industry for coaxial interconnections in high speed data transmission up to 20 Gbit/s and frequency range up to 15 GHz.

To ensure safety, driver assistance systems and autonomous driving require higher rates of real-time data in order to calculate routes continuously, recognize and classify objects, and determine spatial distances. High data volumes from different cameras, various sensors and navigation sources have to be aggregated.

This MCA series allows a high data bit rate while saving installation space and weight compared to the FAKRA and HSD series. This new MCA - connector series is compliant with the new Mini-Koax Interface from VW, aka Mini-FAKRA.



Product Features

- » Compact design
- » Significantly smaller than FAKRA in width and height
- » High speed data transmission up to 20 Gbit/s
- » Excellent RF performance up to 15 GHz
- » Scalable multi-pole connections
- » Hybrid RF & LF signal combinations possible
- » Optimized footprints & SMT options available
- » Complete individual signal shielding

Optimized installation space

- » Save up to 80% of space compared to FAKRA
- » Replace 4 single FAKRA with 1 MCA



APPLICATIONS

- » Autonomous Driving
- » ADAS (Advanced Driver Assistance System)
- » Rear seat entertainment
- » Infotainment & Navigation
- » Next Generation WLAN
- » RF signal transmission



Product portfolio

	Picture	Part number (P/N)	Locking	Style	Cable type	Description	Packaging	Plating
PCB types		5488.MCA.1X20.007	06:00	Short version	-	PCB mount angle plug 4-pole	Tape and reel packaging	7 = Sn
		5497.MCA.1X20.007	12:00	Long version	-	PCB mount angle plug 4-pole	Tape and reel packaging	7 = Sn
		5370.MCA.1X10.007	12:00		-	PCB mount plug 4-pole	Tape and reel packaging	7 = Sn
Cable types		5450.MCA.2X20.027 5450.MCA.2X20.037	12:00		RG 174, 1.5DS 3.2 LL (on request)	Cable mount angle jack 4-pole	Bulk packaging	7 = Sn
		5452.MCA.2X10.027 5452.MCA.2X10.037	-		RG 174, 1.5DS 3.2 LL (on request)	Cable mount jack 4-pole	Bulk packaging	7 = Sn
		5451.MCA.1X10.027 5451.MCA.1X10.037	-		RG 174, 1.5DS 3.2 LL (on request)	Cable mount plug 4-pole	Bulk packaging	7 = Sn

Coding

Replace the X in the P/N for your required coding. Available codings:

A	B	C	D	E	F	Z
Jet black	Cream	Light blue	Claret violet	May green	Nut brown	Water blue



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