



CMA02 Series Military Audio Connectors

NEW



Description

CMA02 connectors are dedicated to **military radiocommunication systems**, primarily intended for **in-vehicle applications**.

Designed to withstand harsh environments, they comply with **MIL-STD-810H** environmental requirements. CMA02 connectors meet EIA 364-31 sealing standards for full environmental protection.

The **360° grounding ring** provides effective electromagnetic interference (EMI) shielding, while the mechanical endurance of up to **10 000 mating cycles** guarantee long-term reliability.

Available with 4 contacts for **power supply** or 14 and 22 for **signal transmission**, CMA02 connectors are a versatile solution for Software Defined Radio (SDR) or any intercom systems.

Main Features

EASY TO USE

- Push-pull mechanism: push to mate and pull to unmate

CONTACT PROTECTION

- Scoop-proof per design

CONTACTS ARRANGEMENTS

- Available with 4, 14 or 22 contacts

HIGH DURABILITY

- 5 000 mating cycles for 22 contacts versions
- Up to 10 000 mating cycles for 4 and 14 contacts versions

ENVIRONMENTAL PERFORMANCES

- Salt spray exposure: 96 hours
- Temperature range: -55 to 125°C
- Sealing: IP68
- Fluid resistance: according to MIL-STD-810 requirements
- Vibrations: 55 Hz to 2 000 Hz, 10g (6 hours)

EMI/EMP SHIELDING

- CEI 60512-25-1 (7/2001)

MATERIALS AND PLATINGS

- **Shell**
Stainless steel plated with black zinc nickel
Sand blasted and passivated stainless steel
- **Contact**
Scoop-proof per design
- **Grounding ring**
Beryllium copper
- **Backshell**
Aluminum alloy plated with black zinc nickel
Sand blasted and passivated stainless steel

ELECTRICAL CHARACTERISTICS

- Contact resistance: $\leq 10\text{m}\Omega$
- Dielectric: 500 V_{eff} at 50 Hz
- Crosstalk: 80 dB at 8 kHz

CONTACT TYPE

- Wire soldering or PC tail contact terminations

Markets & Applications



**Communication Systems
on the Battlefield**



**Communication Systems
in Ground Vehicle**



**Communication Systems
for Navy**

How to order

CMA02 - Connectors

	1.	2.	3.	4.	5.	6.
Series	Shell Type	Keying	Contacts arrangement	Contact type	Grounding pin	Material and platings
CMA02	1	N	14	-	-	KZ

1. Shell Type	
1	In-line receptacle
3	Panel Through receptacle
5	Straight plug
7	Jam nut receptacle

2. Keying				
N	W	X	Y	Z

3. Contacts arrangement	
4	4 contacts (10 000 cycles)
14	14 contacts (10 000 cycles)
22	22 contacts (5 000 cycles)

4. Contact Type		
	Designation	Shell type compatibility
Blank	Solder cup	All
Y1	Y1 PC Tail Contact	7
Y1.2	Y1.2 PC Tail Contact	7
Y1.3	Y1.3 PC Tail Contact	7
Y2	Y2 PC Tail Contact	7
Y3	Y3 PC Tail Contact	7
Y4	Y4 PC Tail Contact	7
Y4.1	Y4.1 PC Tail Contact	7
Y4.2	Y4.2 PC Tail Contact	7
Y8	Y8 PC Tail Contact	7
Y8.1	Y8.1 PC Tail Contact	7

5. Grounding pin		
	Designation	Shell type compatibility
Blank	Without grounding pin	1, 3, 5
PM	1 grounding pin	7
PM4S	4 grounding pins	7

6. Material and platings			
	Shell material	Shell finish	Shell type compatibility
KZ	Stainless Steel	Black Zinc Nickel ✓	5
KG		Passivated sandblasted ✓	1, 3, 7

✓ RoHS compliant.

CMA02 - Backshells



1.		2.		3.			
Series		Backshell type		Cable entry size		Material and platings	
CMA02		RA24		52		ZN	

1. Backshell type	
RA24	Straight backshell with knurling for Band-it™

2. Cable entry size	
52	Cable entry size = 5.2 mm
64	Cable entry size = 6.4 mm
79	Cable entry size = 7.9 mm
95	Cable entry size = 9.5 mm
111	Cable entry size = 11.1 mm
127	Cable entry size = 12.7 mm

3. Material and platings		
	Shell material	Shell finish
ZN	Aluminum	Black Zinc Nickel ✓
KG	Stainless Steel	Passivated sandblasted ✓

✓ RoHS compliant.