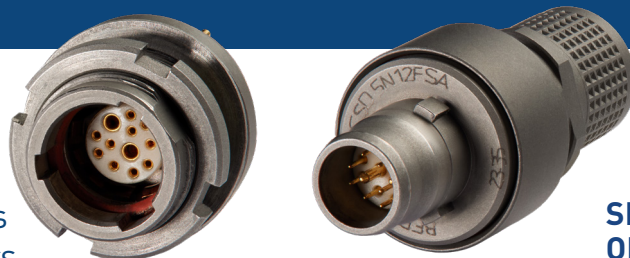




UNMANNED SYSTEMS & REMOTE OPERATOR CONNECTOR SOLUTIONS

BERNIER Connect designs and manufactures rugged circular connectors for defense and aerospace applications. Built for harsh environments (vibration, shock, extreme temperature, ingress, corrosion), our connectors meet the size, weight and data requirements of unmanned platforms and of the operator who pilots them at a distance.



SELECTED SERIES AND ROLE ON AN UNMANNED PLATFORM

CMA SD

Onboard high-speed link : video/imagery downlink, sensor-to-flightcomputer data bus (up to 10Gb Ethernet, HDMI)

CMA USBC

Field data offload : fast, sealed USB-C download of mission, payload or flight-log data

MMC SD

Miniature high-speed link for weight- and space-constrained payload modules (USB 3.2 Gen 1)

MMC

Compact, low-profile integration of mixed power and signal connections between onboard modules

NWA

Netwarrior Lightweight tactical link (radio, telemetry, battery) with break-away disconnect for shock/crash protection



SELECTED SERIES COMPARISON

CHARACTERISTICS	 CMA SD	 CMA USBC	 MMC SD	 MMC	 NWA
Locking	Push-pull	Push-pull	Break-away	Break-away	Break-away (55N ± 15N)
Operating temperature	-55°C to +125°C	-55°C to +125°C (plug) -40°C to +85°C (receptacle)	-55°C to +125°C	-40°C to +71°C	-40°C to +75°C
Mating-unmating cycles	Up to 5000	Up to 10 000	Up to 5000	Up to 5000	Up to 2000
Sealing	IP68 connected and disconnected, up to 4m/24h	Sealed IP68 connected and disconnected, up to 4m/24h depending on configuration	IP68 connected and disconnected, up to 20m/2h	IP68 connected and disconnected, up to 4m/24h	IP68 (1m/1h) connected and disconnected
Data/high-speed capability	Up to 10Gb Ethernet, HDMI	USB 3.2 Gen 2 (USB-C)	USB 3.2 Gen 1	Power and signal	Power and tactical signal
Contacts	8 or 19	1 (USB-C)	12 (mixed gauge)	24 (24AWG)	6 or 7
Current per contact	2 A max (8c) / 1A max (19c)	-	5A (2 contacts) / 1A (10 contacts)	2A max	5A
Shell material and options	Stainless steel - Marine Stainless steel - Marine Bronze	Stainless steel - Marine Stainless steel - Marine Bronze	Stainless steel - Marine Stainless steel - Marine Bronze	Stainless steel - Marine Stainless steel - Marine Bronze	Aluminium, black zinc nickel plating
Max Weight	Plug : 10g Receptacle : 9g	Plug : 30g Receptacle : 18g	Plug : 5g Receptacle : 6g	Plug : 7g Receptacle : 10g	Plug : 3g Receptacle : 3g

RUGGED CONNECTIVITY ACROSS AIR, LAND, SEA AND THE OPERATOR WHO PILOTS THEM

- IP68 sealed, -55°C to +125°C
- Up to 10Gb Ethernet / USB 3.2 Gen 1-2
- Marine-grade stainless steel and marine bronze options for salt water and corrosion resistance
- Aluminum, lightweight option for the remote operator | NWA series
- Break-away quick disconnect for shock and snag protection

