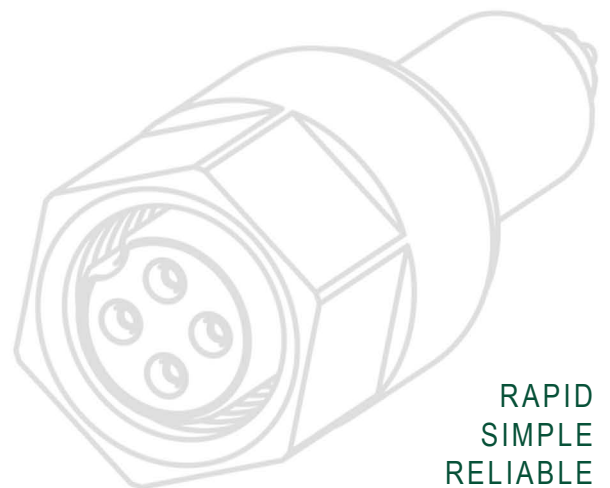


MicroCom

Circular Connector



RAPID
SIMPLE
RELIABLE
ECONOMICAL

comtronic

VERBINDUNGSTECHNIK



The MicroCom line meets the need for ultra miniature high reliable connectors that can be assembled simply and rapidly. Our design concept makes possible special features and preassembled parts that assure the user of unbelievable simple, rapid and economical assembly. The coaxial connectors require only a single operation to attaché the connector and cable. With the crimping of the cable, the separation force between the cable and the connector approaches the average breaking strengths of the shield.

The multipin connectors and correspondingly simple to assemble, with a minimum of loose parts and minimum of assembly operation to perform.

This technique resulting a tremendous saving for tooling and labor costs.

The result of our special design is an extremely high EMC shielding, highest reliability even in very harsh environment

Typical Specification

Electrical

Insulation resistance	10.000 MΩ	per MIL-C-22557
Rated working voltage	400V @ sea level	
Dielectric withstanding	1.000 V @ sea level	per MIL-C-22557
Contact voltage drop	4 mV @ 1 amp	per MIL-C-22557
Contact resistance	4 mΩ @ 1 amp	per MIL-C-22557
Contact current rating	3 amp	per MIL-C-22557

Environmental

Vibration	Mil Std. 202A, method 204 test condition B (15g's) No discontinuity in excess of 1 microsecond
Shock	Mil Std. 202, method 202, 200g's. No evidence of damage
Temperature Cycling	Mil Std. 202, method 102 condition C
Corrosion (Salt Spray)	Mil Std. 202, mthod 10, condition B 5% salt solution
Moisture resistance	Mil Std. 202C, method 106B, omitting steo 7b and hogh humidity tests

Mechanical

Contacts	contacts are constrained in both directions
Engaging force	0,8N per contact
Coupling retention torque	60Nmm
Contact durability	5000 cycles with contact resistance within min. Mil-C-22557
Cable retention	separation force equal to breaking strengths of shield of The cable per Mil-C-22557
Temperature range	-55°C to 250°C

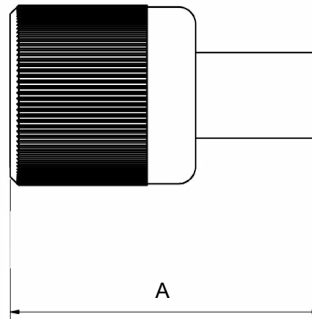
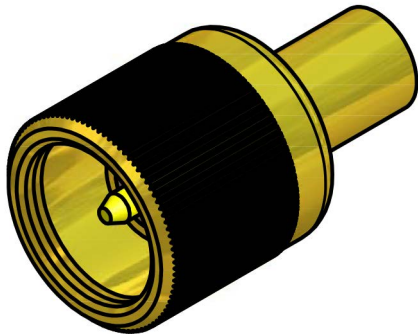
General

Standard shell	Brass per QQ-B-626
Insulators	PEEK per Mil-P-46183
Plating	Gold per Mil-G-45204, Typ 2, Class 1
Gasket	Silicone rubber per AMS 3304

Comtronic reserve the right to make improvements without advance notice.

MicroCom coaxial plug

extremely high EMC shielding



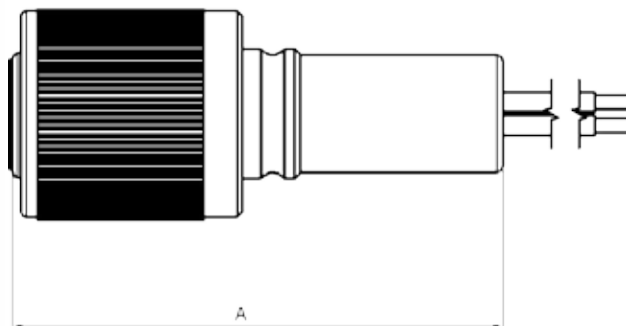
MicroCom Coaxial connectors 10/32 UNF thread

The CMR Series is an extremely reliable miniature connector. Gold plated materials assure an outstanding EMC shielding. These connectors are 100% equivalent to MALCO/Microdot 10/32 thread

	Shell style	A Total lengths	Cable types
CMR-O2-B-01P-KL	Cable connector	19,60	RG 174 RG 196 RG 188 RG 316
CMR-O2-B-01P-KS	Cable connector	13,20	RG 178
CMR-O2-J-01P-KL	Cable connector 90° angled	33,00	RG 174 RG 196 RG 188 RG 316

MicroCom 4-way plug

extremely high EMC shielding



	Variances XX	Replace XX by	Shell style	A Total lengths	Cable entry	Max. wire gauge
CMRM-02-B-04S M4,5 thread	Gold plated Black chromate	O2 B1	Cable connector	11,50	1,70 mm	AWG 32
CMR-02-B-04S 1/4-28 UNF thread	Gold plated	O2	Cable connector	13,00	3,15 mm	AWG 28
CMR-02-B-04S-IP67 1/4-28 UNF thread	Gold plated	O2	Cable connector	13,00	3,15 mm	AWG 28
CMR-02-G-04S 1/4-28 UNF thread	Gold plated	O2	Cable connector 90° angled	20,40	3,15 mm	AWG 28
CMRH-02-B-04S 5/16 thread	Gold plated	O2	Cable connector	18,20	4,80 mm	AWG 26
CMREH-02-B-04S 5/16 thread	Gold plated	O2	Cable connector	18,20	4,80 mm	AWG 22
CMR-02-B-04S-PCB 1/4-28 UNF thread	Gold plated	O2	Cable connector	17,70	3,15 mm	AWG 30
CMR-02-B-04S-PCB-357 1/4-28 UNF thread	Gold plated	O2	Cable connector	17,70	3,15 mm	AWG 30

Standard version 1/4-28 thread

The CMR Series is an extremely reliable miniature connector. Gold plated materials assure an outstanding EMC shielding. Water tight IP 67 available. The **CMRH** and **CMREH** are the ruggedised version for harsh environment.

Special for PCB accelerometers

For PCB accelerometers we offer

The suitable connectors.

Call us for further information

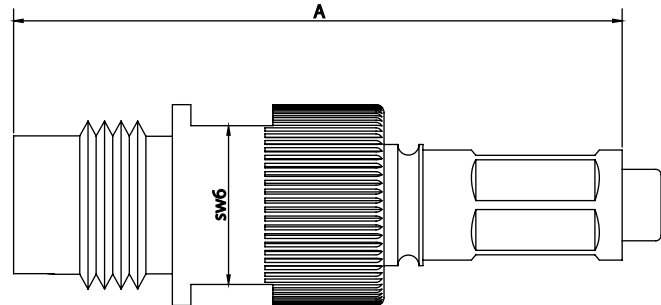
Ultra miniature CMRM Series M 4,5 thread

The CMRM Series is smaller and lighter than the CMR Series. It has a M4.5 thread.

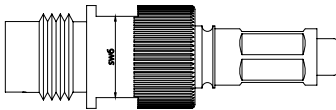
The wires that can be used are AWG 32 max.

MicroCom 4-way receptacle

extremely high EMC shielding

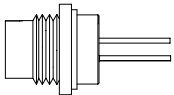


Shell style "B"



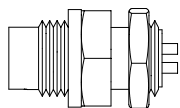
Shell style "C"

PCB contacts



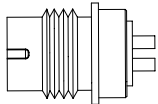
Shell style "D"

Solder pots



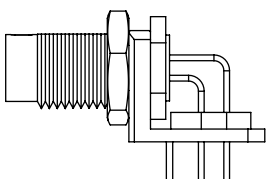
Shell style "E"

Solder pots



Shell style "F"

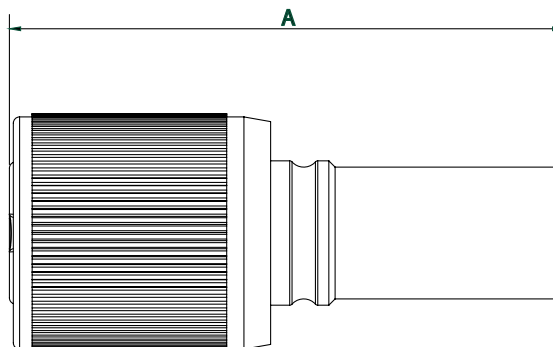
PCB contacts



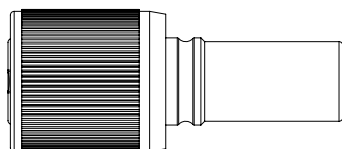
Part number	Plating Variances XX	Replace XX by	Shell style	A	Cable entry	Max. wire gauge
CMRM-XX-B-04P M4,5 thread	Gold plated Black chromate	O2 B1	Cable connector	11,50	2,7 mm	AWG 32
CMR-XX-B-04P 1/4-28 thread	Gold plated	O2	Cable connector	23,00	4,2 mm	AWG 28
CMRH-O2-B-04P 5/16 thread	Gold plated	O2	Cable connector	23,00	5,0 mm	AWG 26
CMREH-O2-B-04P 5/16 thread	Gold plated	O2	Cable connector	23,00	5,0 mm	AWG 22
CMRM-XX-C-04P	Gold plated Stainless steel	O2 S1	PCB mounting	6,10	-	AWG 25 Solid wire
CMRM-O2-C-04P- GND	Gold plated	O2	PCB mounting with grounding pin	6,10	-	AWG 25 Solid wire
CMRM-T1-C-04P-H	Titanium grade 1	T1	PCB mounting hermetic	6,10	-	AWG 25 Solid wire
CMR-XX-C-04P	Gold plated Stainless steel Hermetic sealed	O2 S1 H at the end of PN	PCB mounting	7,60	-	AWG 25 Solid wire
CMRM-XX-D-04P	Gold plated Black chromate	O2 B1	Thread mount	11,30	-	AWG 32
CMR-O2-D-04P	Gold plated	O2	Thread mount	14,80	-	AWG 28
CMRH-O2-D-04P	Gold plated	O2	Thread mount	15,30	-	AWG 26
CMR-O2-E-04P	Gold plated	O2	Solder mount	10,70	-	AWG 28
CMR-O2-E-04P	Gold plated	O2	PCB mounting 90° angled	20,40	-	AWG 25 Solid wire

MicroCom 12-way plug and receptacle

extremely high EMC shielding

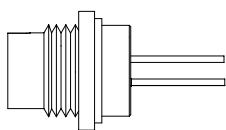


Shell style "B"

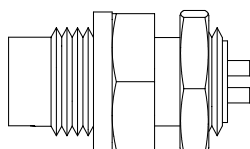


Part number	Plating Variances XX	Replace XX by	Shell style	A	Cable entry	Max. wire gauge
CMR-O2-B-12S plug	Gold plated	O2	Cable connector	18,60	4,60	AWG 30
CMR-O2-B-12P Receptacle	Gold plated	O2	Cable connector	18,20	4,60	AWG 30
CMR-O2-C-12P	Gold plated	O2	PCB mounting	18,20	-	AWG 25 Solid wire
CMR-O2-D-12P	Gold plated	O2	Thread mount	17,40	-	AWG 30

Shell style "C" PCB contacts



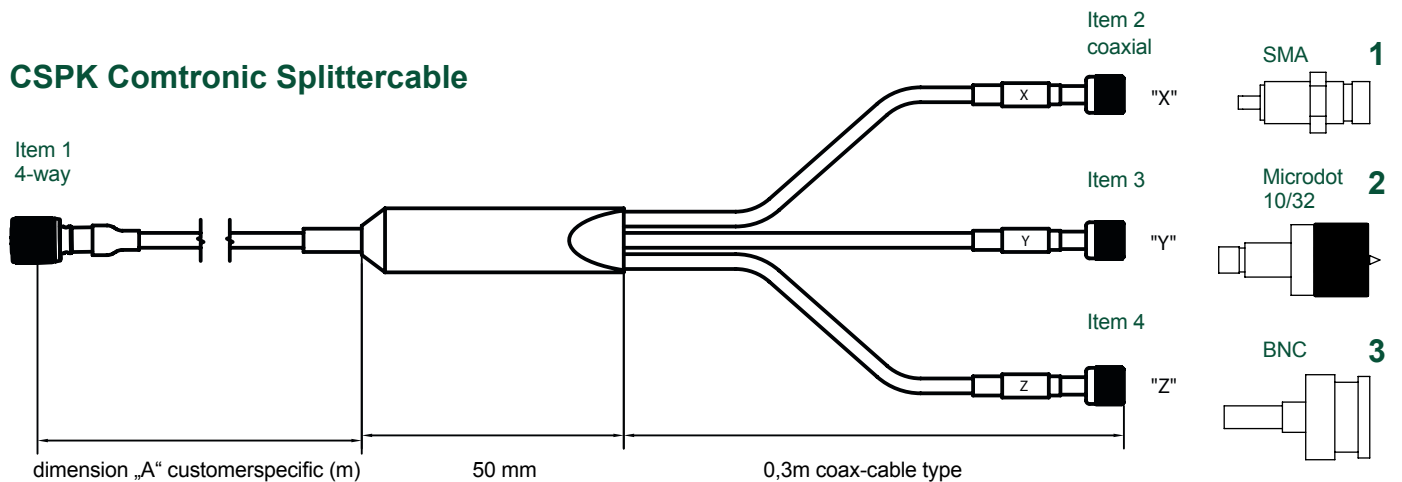
Shell style "D" Solder pots



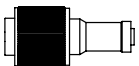
MicroCom 4-way cable assemblies

splitted on coaxial connectors

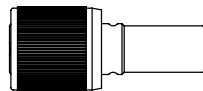
CSPK Comtronic Splittercable



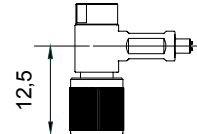
1 CMRM-O2-B-04S



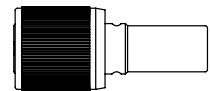
2 CMR-O2-B-04S



3 CMR-O2-G-04S



4 CMR-O2-B-04S-PCB



**Stainless steel
connector with flange
for space application**



**High speed data
connector for 1 Gbit
transmission**



**Worldwide smallest coaxial
connector for Pico Coaxial
cables overall diameter
1.20 mm
Qualified for aircraft
application**





VERBUNDUNGSTECHNIK

Comtronic GmbH
Verbindungstechnik
Hüttengasse 53
D-69253 Heiligkreuzsteinach
mail@comtronic-gmbh.de
www.comtronic-gmbh.de