CMA Serie

Push-Pull / Quick-Releasable Connector





... For an optimum data transfer in harsh environments !



Catalog

Release 2.0 - JUIN 2016



Description

BERNIER designed the CMA line specially for equipment in harsh environments. The CMA connectors are available equipped with 04, 06, 10, 14 and 22 contacts, their toughness and ergonomics are apreciated in a wide range of applications.

The CMA connectors comply with DEFENSE GAM T2 norm, registered in GAM T1 and comply with specification DTAT n°2559A.

Applications



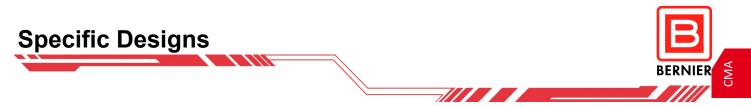
Optronic devices







Tactical equipements



The Right Solution for your projects

CMA connectors are appreciated for their flexibility to fit customer specifications.

Our Design team is able to propose versions answering to your needs. Reinforcements can be applied in case of use in harder climatic, ergonomic and electromagnetic conditions.

The CMA line evolution led by BERNIER has come to integrate electronic modules in the connector shell to carry wireless functions or to make adaptators towards other industrial or military connectors.

Caps and backshells can also be improved to bring a better ergonomics on your configuration.



EMC reinforcements

Options are available in order to reinforce the EMC specifications.



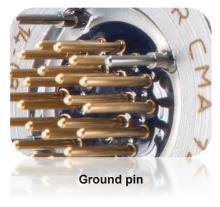
Ground ring « 360° »

CMA standard receptacles are equipped with a ground ring giving a high EMC level. This function developed by Bernier brings a better continuity between the connectors shells and a protection on 360°



Conductive O rings

The receptacle Fluorosilicon Oring can be switched to a conductive version to establish a better conductivity between the connector and the panel.



One or several ground pins inserted in the connector shell can be set to link the chassis ground directly to the PCB.

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Technical data

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Climatic and mechanical characteristics

	Push-Pull version 'L' Quick releasable Versio					
Unlocking system	Manual action on ring	Axial force (30N \leq F \leq 70N)				
Operating temperature Range	-55°C to +125°C					
Endurance	10 000 operations2000 Operations5000 operations (22 contacts)2000 Operations					
Sealing performance	IP68 (Mate	d and unmated)				
Corrosion resistance		alt fog: 00 hours depending material				
Vibration	55 Hz to 2000 Hz, 10g (6 hours)					
Fluids resistance	Oils and hydrocarbons					

The Push-Pull version and the quick-releasable version mate on the same receptacle

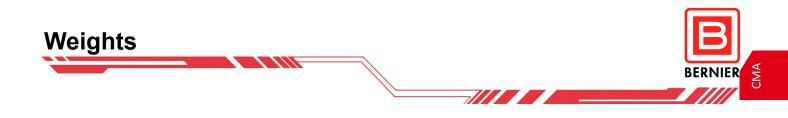
Electrical characteristics

	04 contacts version	06 contacts version	10,14 contacts version	22 contacts version				
Working voltage	100	100 V _{max}		nax				
Current rating per contact	4 A _{max}	4 A _{max} (2cts) 1,5 A _{max} (4cts)	1,5 A _{max}	2 A _{max}				
Gauge (AWG)	18	18 (2cts) 22 (4cts)	22	26				
Contact type		Solder buckets / For PCB						
Contact resistance		≤ 10 mOhms						
Insulation resistance		>1000 MOhm	ns under 500 V _{DC}					
Crosstalk		80 dB at 8 kHz -						
Dielectric		500 V _{AC RMS} at 50 Hz						
EMI RFI Protection			Yes					

Material and plating

	Matérials	Plating
Connector shell	Stainless steel Navy stainless steel / Bronze	Sandblasting or Black Chrome
Insulator	Thermosetting (04,06,10,14 cts) PBT (22 cts)	-
Contacts	Copper alloy	Gold over nickel
Ground ring	Beryllium Copper	-
Backshell shell	Aluminium alloy	Black Chrome or Black Anodizing





Connectors

Туре	Weight (Max)
CMA 1 (Extension)	20 g
CMA 3 (Panel through)	23 g
CMA 5 (Push-Pull plug)	30 g
CMA 6 (Dummy receptacle)	16 g
CMA 7 (Receptacle)	18.5 g

Stainless steel version

Elbow parts

Туре	Weight (Max)
CMA RA8	21 g
CMA RA82	18 g

Elbow and straight backshells

Туре	Weight (Max)
CMA RAI-XX	9.6 g
CMA RA7-XX	26 g
CMA RA18-XX	14 g
CMA RA09-XX	6 g
CMA RA81-XX	28 g

Caps

Туре	Weight (Max)
Thermoplastic plug cap (CMA BA06)	4.5 g
Metallic plug cap (CMA BA65 …)	12 g
Elastomer extension cap (CMA BA94)	6 g
Elastomer receptacle cap (CMA BA86-35MC)	6 g
Metallic receptacle cap (CMA BA73)	38 g

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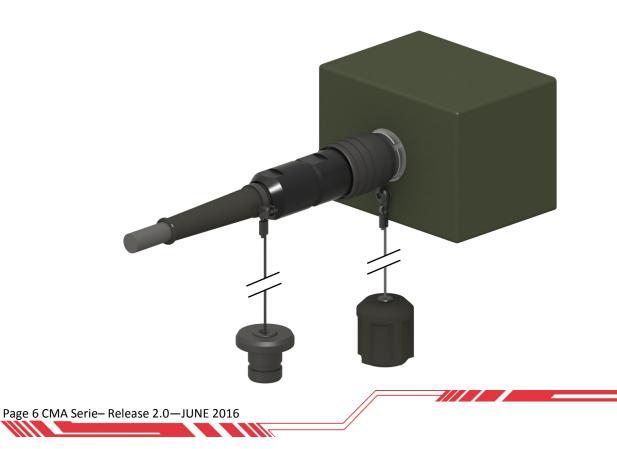


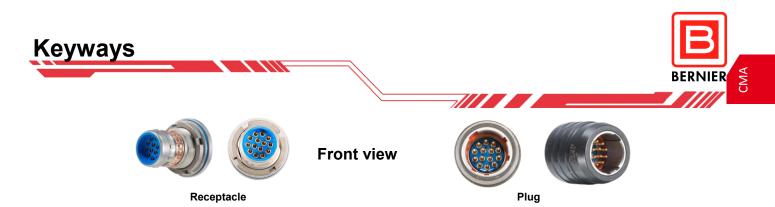
Compatibility matrix

	Extension Type 1	Panel through Type 3	Dummy receptacle Type 6	Receptacle Types 7 and R7	Elbow part 90°	Elbow part 105°	Straight backshell	Elbow backshell 90°	Thermo- plastic plug cap	Metallic plug cap
Plug Type 5	•	•	•	•	•	•	•	•	•	•
Panel plug Types 11,18	•	•	•	•	-	-	-	-	•	•
Elbow part 90°	•	•	-	-	-	-	•	-	-	-
Elbow part 105°	•	•	-	-	-	-	•	-	-	-
Straight backshell	•	•	-	-	•	•	-	-	-	-
Elbow backshell 90°	•	•	-	-	-	-	-	-	-	-
Elastomer cap	•	•	•	•	-	-	-	-	-	-
Metallic cap	•	•	•	•	-	-	-	-	-	-



Attention : The mating connectors must have the same number of contacts and the same keyway. Special case : A 10 contacts plug can mate a 14 contacts receptacle.

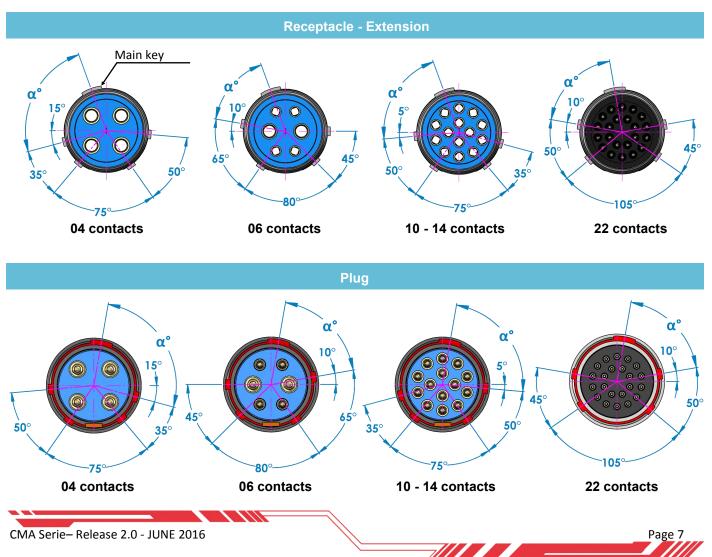


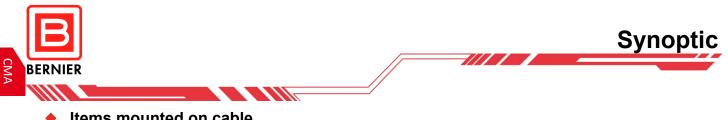


The keyways depend on the main key position. Positions of the 4 small keys, contacts and flats of the receptacle remain the same.

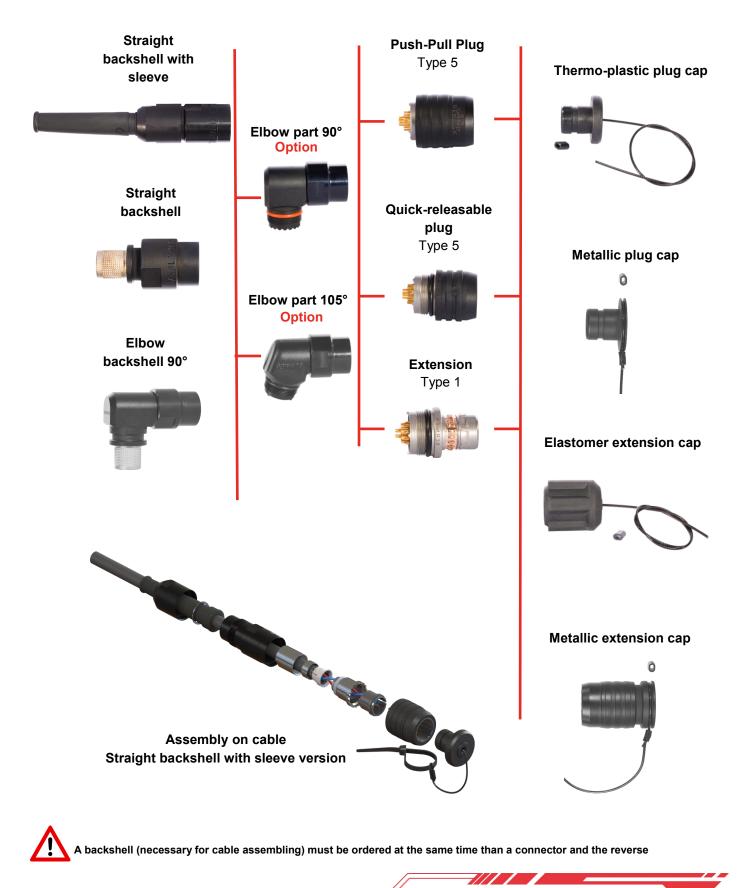
		Keyways							
		N	w	x	Y	z	P *	т	
Angle α	04 contacts	105°	95°	115°	85°	125°	-	**	
	06 contacts	80°	70°	90°	60°	100°	-	**	
	10-14 contacts	95°	85°	105°	75°	115°	138°	**	
	22 contacts	80°	70°	90°	60°	100°	-	**	

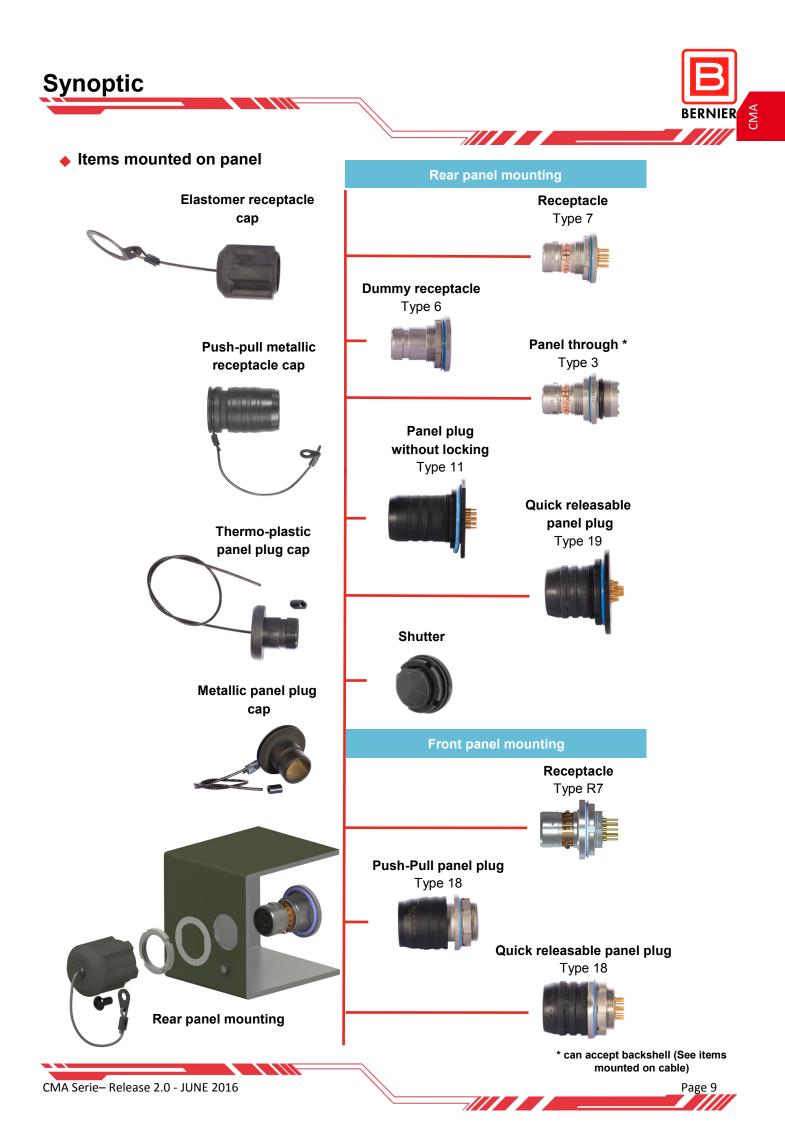
* Keyway P allows the possibility to make 'double keyways' plug ex: CMA 5NP14 mating a N keyway receptacle AND a P keyway receptacle ** Keyway T mates with all keyways—tooling.











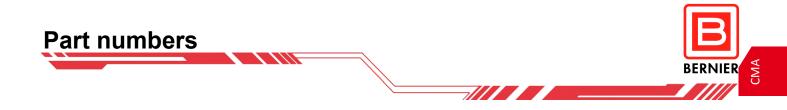


Part numbers

- _ _

Connectors

Description	Code	СМА	В	7	Ν	14	Y1	JC	PM	SM
Serie	СМА		1	1	1	1	1	1	1	1
Aspect : 'Nothing mentionned' : Sandblasted version Black version (by default for type 5) Locking (Type 5, 18) : 'Nothing mentionned' : Push-pull version Quick releasable version with spring clip Quick releasable version without locking	B L SC									
Connector Type : Extension Panel Through Plug Dummy receptacle Receptacle Panel Plug	1 3 5 6 2, 7, R7 11, 17, 18, 19									
Keyways	N, W, X, Y, Z, P, T									
Number of contacts	04, 06, 10, 14, 22									
Contacts : 'Nothing mentionned' : Solder cup For PCB Type 7, R7 For PCB Type 5, 18	Y1, Y1.2, Y1.3, Y2, Y3, Y4, Y4.1, Y4.2 Y8, Y8.1 Y, YA									
Ground pin 1 ground pin 4 ground pins	PM PM4S									
Panel Oring : 'Nothing mentionned' : Fluorosilicon Oring Fluorosilicon charged with Ni/Graph Oring Fluorosilicon charged Silver/Al Oring	JC JC1									
Material : 'Nothing mentionned' : Stainless steel Marine stainless steel 250 Hours Salt fog Bronze 500 Hours Salt fog	SM BM									



• Elbow parts for types 1, 3, 5

Description	Code	СМА	RA8
Serie	СМА		1
Elbow part	RA8, RA82		

• Backshell for types 1, 3, 5

Description	Code	СМА	RA7	-	70
Serie	СМА		1		1
Backshell	RA02, RA7, RA18, RA24, RA09, RA81, RAIXX				
Outer diameter	See chapter « Elbow part and backshells »				

Caps

Description	Code	СМА	BA	06	МС	-	200	ST
Serie	СМА		1	1	1		1	1
Caps	BA							
Type of caps	See chapter « Caps »							
Type of fixing : Black covered stainless steel micro-cable 'Nothing mentionned' : Nylon cord	мс							
Fixing length (mm)	See chapter « caps »							
Termination	See chapter « caps »							



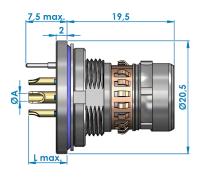


Receptacles

• Type 7 with solder cup contacts



Number of contacts	ΦΑ	L max
04	AWG 18	7.1
06 2 contacts 4 contacts	AWG 18 AWG 22	7.1 7.1
10	AWG 22	7.1
14	AWG 22	9.1
22	AWG 26	7.1



Ex: CMA 7N06PM

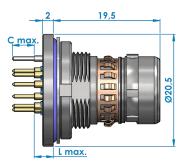
• Type 7 with contacts for PCB





Ex: CMA 7N10Y1PM

Contact type	L max	C max
Y1	3.5	4
Y1.2	3.5	2.6
Y1.3	3.5	1.5
Y2	9.5	4
Y3	12.5	4
Y4	3.2	2
Y4.1	3.2	1.2
Y4.2	3.2	1.6
Y8	5.5	4
Y8.1	5.5	2.6

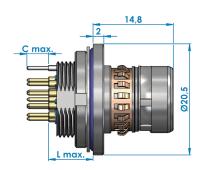


Type R7 rear panel mounting (can't be dismounted by the outside of the equipment)



Ex: CMA R7N14Y1PM

Contact type	L max	C max		
Y1	8.3	4		
Y1.2	8.3	2.6		
Y1.3	8.3	1.5		
Y2	14.3	4		
Y3	17.3	4		
Y4	8	2		
Y4.1	8	1.2		
Y4.2	8	1.6		
Y8	10.3	4		
Y8.1	10.3	2.6		



Version R7 with solder cup contacts possible



Type 7 with 4 ground pins set on 360° 'PM4S'

	Con
JEB CMY	
AA-55	
Ex: CMA 7N14Y1PM4S	

Contact type	L max	C max
Y1	3.5	4
Y1.2	3.5	2.6
Y1.3	3.5	1.5
Y2	9.5	4
Y3	12.5	4
Y4	3.2	2
Y4.1	3.2	1.2
Y4.2	3.2	1.6
Y8	5.5	4
Y8.1	5.5	2.6



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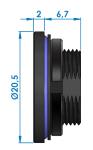
• Type 6 for plug fixing, for all plugs



Ex: CMA 6

• Watertight shutter for CMA Type 7 panel cut





Ex: CMA B598N

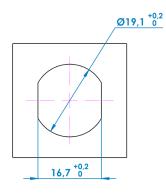


Type 7 fitting the MIL-C-55116 receptacle panel cut



Contact type	L max	C max
Y1	3.5	4
Y1.2	3.5	2.6
Y1.3	3.5	1.5
Y2	9.5	4
Y3	12.5	4
Y4	3.2	2
Y4.1	32	1.2
Y4.2	3.2	1.6
Y8	5.5	4
Y8.1	5.5	2.6





Type 2 fitting the special panel cut with 4 ground pins

Contact type



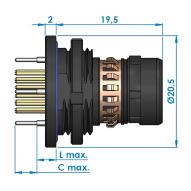


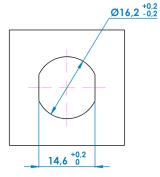
Ex: CMA B 2N22Y1PM4

 Y1
 3.5

 Y2
 9.5

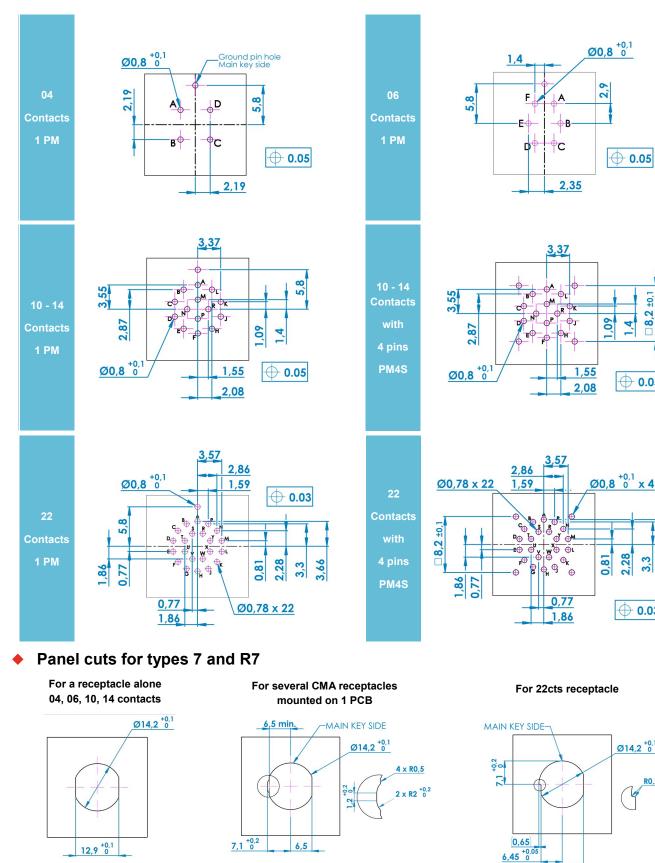
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PCB holing and panel cuts

PCB holing, welding side, through pins



CMA

BERNIER

2,9

⊕ 0.05

±0,1

8,2

🕀 0.05

4

2,28

0.03

Ø14,2^{+0,1}

6

12,9 0+0,1

R0,25 0+0,20

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0,81

3,66 3,3

60

Front view side — Maximum panel thickness for CMA receptacles : 3.5mm

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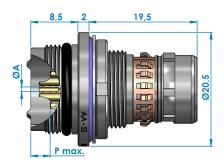


Panel through

• Type 3 With solder cup contacts



Number of contacts	ΦΑ	P max
04	AWG 18	5.2
06 (2 contacts) (4 contacts)	AWG 18 AWG 22	5.2 5.2
10	AWG 22	5.2
14	AWG 22	5.2
22	AWG 26	5.5



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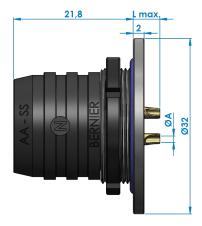
Ex: CMA 3N14



Type 11 Quick-releasable with solder cup contacts



Number of contacts	ΦΑ	L max
04	AWG 18	4.9
06 2 contacts 4 contacts	AWG 18 AWG 22	4.9 4.9
10	AWG 22	4.9
14	AWG 22	6.9
22	AWG 26	4



Ex: CMA B L 11N04

Version 11 Quick-releasable panel plug with contacts for PCB possible

Type 11 No locking system with contacts for PCB





Ex: CMA 11N14Y5

Type 17 Quick-releasable with contacts for PCB



Contact type	L max	C max
Y	1.7	1.2
YA	3.7	3.2





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Ex: CMA L 17Y14YAPM

Version 17 Quick-releasable panel plug with solder cup contacts possible



Panel plugs

Type 18 Push-Pull with solder cup contacts



Number of contacts	ΦΑ	P max
04	AWG 18	4.7
06		
(2 contacts) (4 contacts)	AWG 18 AWG 22	4.7 4.7
10	AWG 22	4.7
14	AWG 22	4.7
22	AWG 26	7.1



Ex: CMA 18N14

Version 18 Push-Pull panel plug with contacts for PCB possible

Type 18 Quick-releasable with contacts for PCB



Contact type	L max	C max
Y	6.2	1.2
YA	8.2	3.2



21,8

L max. 2

28 on flats

Ex: CMA L 18N14YA

Version 18 Quick releasable panel plug with solder cup contacts possible

5

5

5

5

7

3.9

Type 19 Quick-releasable with solder cup contacts

Number of contacts

06

(2 contacts)

(4 contacts)

10

14

22





Ex: CMA B L 19N14

Version 19 Quick-releasable panel plug with contacts for PCB possible

AWG 18

AWG 18

AWG 22

AWG 22

AWG 22

AWG 26



• Type 18 Version 'SC' No locking system with solder cup contacts



Number of contacts	ΦΑ	L max
04	AWG 18	8.9
06		
(2 contacts)	AWG 18	8.9
(4 contacts)	AWG 22	8.9
10	AWG 22	8.9
14	AWG 22	11
22	AWG 26	7.9



Ex: CMA SC 18N06

Version 18 No locking system with contacts for PCB possible





Type 5 Push-Pull plug with solder cup contacts

Number of contacts	ФА	L max
04	AWG 18	27.2
06		
(2 contacts)	AWG 18	27.2
(4 contacts)	AWG 22	27.2
10	AWG 22	27.2
14	AWG 22	29.2
22	AWG 26	25.7



Plugs

Ex: CMA 5N10

Ex: CMA L 5N14

Type 5 Quick releasable plug with solder cup contacts



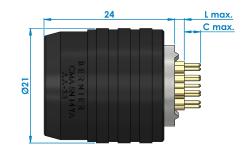
Number of contacts 04 AWG 18 27.2 06 (2 contacts) AWG 18 27.2 (4 contacts) AWG 22 27.2 AWG 22 10 27.2 14 AWG 22 29.2 22 AWG 26 25.7



• Type 5 Push-Pull plug with contacts for PCB



Contact type	L max	C max
Y	-0.3	1.2
YA	1.8	3.2



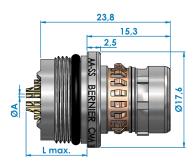
Ex: CMA 5N14YA

Version 5 Quick releasable plug with contact for PCB possible



Type 1 Extension with solder cup contacts

Number of contacts	ΦΑ	L max
04	AWG 18	11.4
06 (2 contacts) (4 contacts)	AWG 18 AWG 22	11.4 11.4
10	AWG 22	11.4
14	AWG 22	13.4
22	AWG 26	11.4



Ex: CMA 1N22

• Type 1 extension with solder cup contacts and integrated backshell





AWG 18 04 10.9 06 AWG 18 10.9 (2 contacts) (4 contacts) AWG 22 10.9 10 AWG 22 10.9 14 AWG 22 12.9 22 AWG 26 10.9

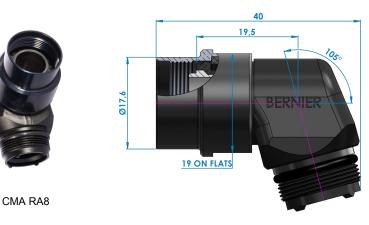


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Ex: CMA 1N22SP



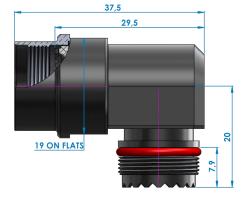
Elbow part with a 105° angle



Orientation choice by angle of 20° set when tightening the backshell

Elbow part with a 90° angle





CMA RA82

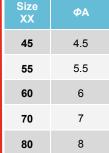
Orientation choice by angle of 20° set when tightening the backshell

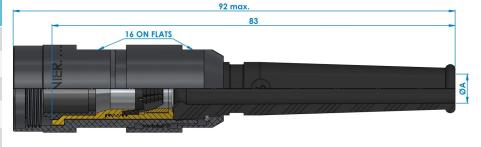
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Straight backshell with sleeve







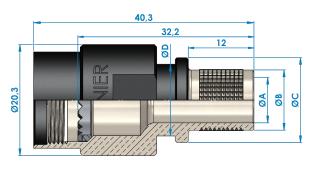
CMA RA7-XX

Cable clamp and sleeve included

Straight backshell with knurling



ΦA ΦΒ ΦC ΦD 5.2 8.5 13.5 11.5 52 64 6.4 9.6 13.9 11.5 11.2 15.5 79 7.9 13.1 9.5 12.8 17.1 95 14.8 111 11.1 14.3 18.7 16.3 127 12.7 15.9 20.3 17.7



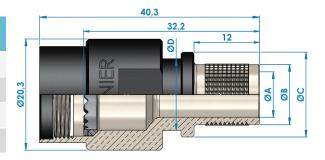
CMA RA18-XXX

Backshell for cable assembling with metallic collar and heat-shrink boot (not included)

Straight backshell with knurling



ΦC ΦD ΦA ΦΒ 15.5 52 5.2 8.3 13.1 6.4 15.5 64 9.4 13.1 7.9 15.5 79 11 13.1 83 8.3 11 15.5 13.1



CMA RA24-XX

Diameters C and D don't change.

Backshell for overmolding or cable assembling with metallic collar and heat shrink boot (not included)





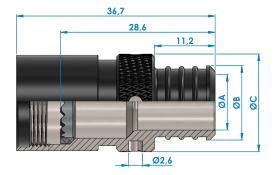
Elbow backshells with knurling

	Size XXX	ΦΑ	ΦΒ	ΦC	ΦD
	52	5.2	8.5	13.5	11.5
	64	6.4	9.6	13.9	11.5
	79	7.9	11.2	15.5	13.1
	95	9.5	12.8	17.1	14.8
0	111	11.1	14.3	18.7	16.3
CMA RA81-XXX	127	12.7	15.9	20.3	17.7

Backshell for cable assembling with metallic collar and heat-shrink boot (not included)

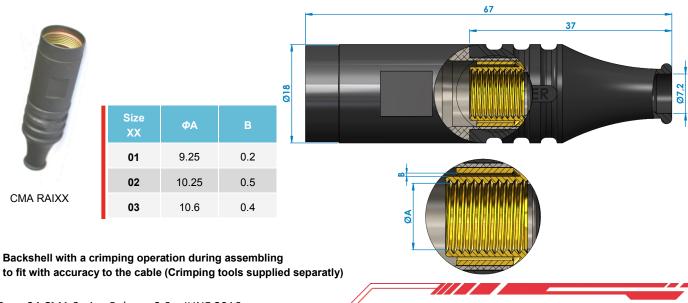
Straight backshell with knurling





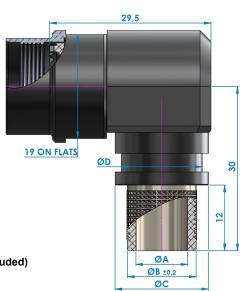
CMA RA02-XX

Backshell for cable assembling with metallic collar and heat-shrink boot (not included)



Unremovable straight backshell

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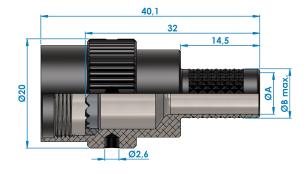


Backshells



Straight backshell with knurling



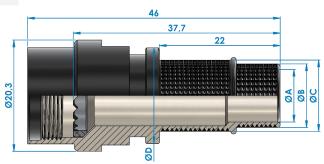


CMA RA17-XX

Straight backshell with double knurling



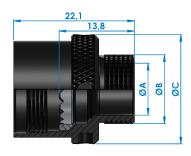
ize (X	ΦΑ	ΦΒ	ΦC	ΦD
95	9.5	11.6	13	17.5
				e,



CMA RA19-XX

Short backshell





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Backshells for cable assembling with metallic collar and heat-shrink boot (not included)

ΦΒ

ΦC





Plug caps

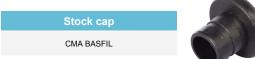


	Thermo-plastic Watertight			ic black ertight
With	Cord	Microcable	Cord	Microcable
Ferule*	CMA BA06- 200ST	CMA BA06MC- 200ST	CMA BA65- 200ST	CMA BA65MC- 200ST
Plastic clamp	CMA BA06	CMA BA06MC	CMA BA65T	CMA BA65MCT

* Ferule is delivered separatly to crimp it during cable assembling with the best fixing length.

Ex: CMA BA06MC

Note that for plugs without locking system (SC type) a special cap is necessary, please contact us.



Caps for receptacles types 3, 6 and 7



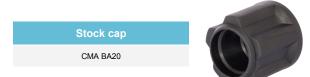
Ex: CMA BA86-35MC



	Elastomer cap Watertight			netallic cap * ertight
Avec	Cord	Microcable	Cord	Microcable
Metallic ring	CMA BA86	CMA BA86-35MC	CMA BA100xxxEM	CMA BA100xxxMCEM
Crimped eyelet for M3	CMA BA98	CMA BA98MC	Contact us	Contact us
90° crimped eyelet for M3 screw	CMA BA81	CMA BA81MC	Contact us	Contact us
Eyelet for M3 screw	CMA BA91	CMA BA91MC	Contact us	Contact us
Specific eyelet attached to 3 caps	CMA BA84	CMA BA84MC	Contact us	Contact us

 * Metallic cap part number contains the keyway and the number of contacts (xxx) of the connector it covers ex : CMA BA100W22MCEM

For type R7 receptacle, you must consider the extension cap with an above panel fixing.



Please contact us for part number confirmation

Nylon cord is nearing obsolescence ! (Microcable is recommanded for new projects)



Extension caps

Caps



Ex: CMA BA11MC

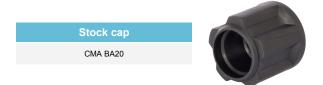


Ex: CMA BA100N22MC-200ST

	Elastomer cap			Métallic cap* tertight
Avec	Cord	Microcable	Cord	Microcable
Ferule**	CMA BA94- 200ST	CMA BA94MC- 200ST	CMA BA100xxx- 200ST	CMA BA100xxxMC- 200ST
Plastic clamp	CMA BA11	CMA BA11MC	CMA BA100xxxT	CMA BA100xxxMCT

 * Metallic cap part number contains the keyway and the number of contacts (xxx) of the connector it covers ex : CMA BA100W22MCEM

** Ferule is delivered separatly to crimp it during cable assembling with the best fixing length.



Terminations

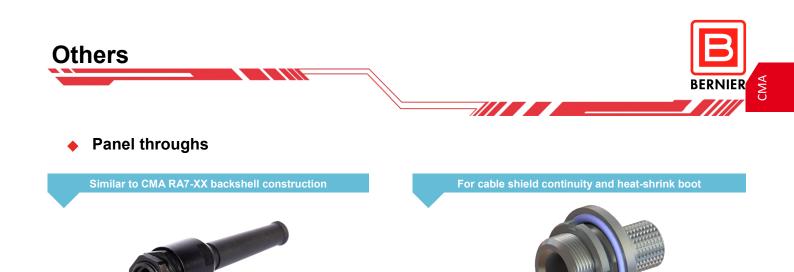
Some terminations can accept several lanyards





Connectors with electronic functions integrated







B459

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• Development of products in the CMA environment



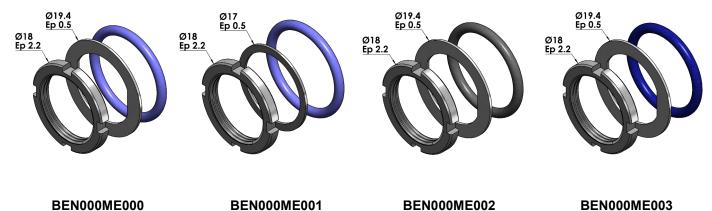
CMA Serie- Release 2.0 - JUNE 2016





Accessories

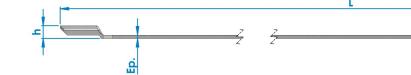
Kits with Oring Washer and Nut for receptacle type 7 and R7	Part numbers
Kit Oring-Washer-Nut (standard)	BEN000ME000
Kit Oring-Circular washer-Nut	BEN000ME001
Kit conductive Oring-Washer-Nut (JC fluorosilicon charged Nickel-Graphite)	BEN000ME002
Kit conductive Oring-Washer-Nut (JC1 fluorosilicon charged Silver-Aluminium)	BEN000ME003

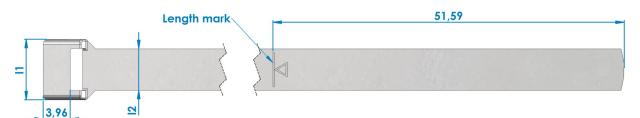


 Metallic clamp for backshells
 PN
 L (mm)
 h (mm)
 I1 (mm)
 I2 (mm)
 Ep. (mm)

 Metallic clamp width 6.10mm
 B593
 362.1
 1.88
 8.9
 6.1
 0.51

 Metallic clamp width 3.17mm
 B452
 206.4
 1.35
 5
 3.1
 0.4



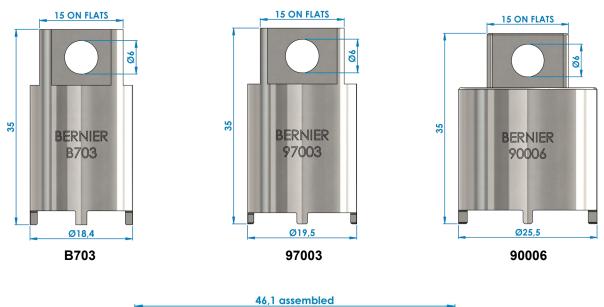


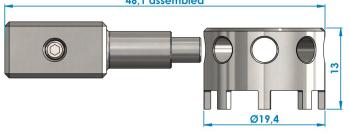
Tooling



Tools

Tightening tools	Part numbers
Tightening key for receptacles type 7	B703
Tightening key for receptacle type 2	97003
Tightening key for panel plugs types 11, 17 and 19	90006
Tightening key for panel plugs type 18	BAC000MEGR2





BAC000MEGR2

Tightening torque

Connector material	Torque For receptacle types 3, 7 and R7	Torque For backshells
Stainless steel	9 N.m	6 N.m
Bronze	11 N.m	6.1 N.m
Navy stainless steel	9 N.m	6 N.m







Tools

Mechanical counter part	Part number
Antirotation plug to tighten the backshell on extension with xx contacts	BOUExxMENA01
Antirotation receptacle to tighten the backshell on plug with xx contacts	BOUFxxMENA01



Ex: BOUE14MENA01



Ex: BOUF14MENA01

Electrical counter part	Part number
Panel plug to test all keyways receptacle and extension	CMA 12TxxYA (xx : number of contacts)
Receptacle to test all keyways plug	CMA 7TxxY1 (xx : number of contacts)



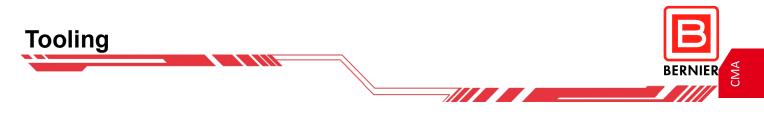
CMA 12T14YA



CMA 7T14Y1

/////

Available with solder cup contacts



Tools

For cap installation	Part numbers
Tool to crimp the ferule on microcable	BOU000MESE01
Tool to crimp the ferule on the nylon cord	B705



BOU000MESE01



B705







Tools

For the backshell tightening	Part numbers
Tool to crimp the metallic clamp width 6.10mm	BOU000MESE02
Tool to crimp the metallic clamp width 3.17mm	BOU000MESE03
Crimping jaws for CMA RAI-XX backshell	B458
Pneumatic tool for the crimping jaws B458	RH50
Tightening tool for CMA RA02-XX backshell	B704



B704



BOU000MESE02



B458



RH50



A- Prepare the cable following Fig.A and Fig.B. The 'elbow plug' is the addition of an elbow part CMA RA8 between items 9 and 10.

B- To facilitate soldering operation, mate item 10 on counterpart tool BOUExxMENA01 (xx number of contacts).

C- Solder the wires (protection with heat-shrinkboots recommended).

D- Make a knot strongly tightened with the cable cord and introduce the knot in the slot of the plastic ring 9, cut extra nylon cord.

E- Bring the plastic ring 9 on the head of plug 10.

F- Slide the stop cable 8 on the plastic ring 9.

G- Spread the cable shield on the stop cable 8 and maintain it with the cable clamp 7.

H- Cut the extra cable shield.

I- Slide the tightening cone 6, then the cable clamp nut 5 and screw it on the stop cable 8.

J- Screw the backshell body 4 on the head of plug 10 mounted on the counterpart tool BOUExxMENA01.

K- Introduce the end of the sleeve 3 inside the backshell body 4. Put the locking washer in its place on the sleeve 3.

L- Screw the locking nut 1 on the backshell body 4 with a dynamometric key, tightening torque : 6N.m

ATTENTION : These information are only for information, procedure may vary following the type of cable and the number of contacts.

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-Prepare cable and backshell items (metallic clamp and heat shrink boot not included in the backshell part number) -Solder the cable wires on the connector contacts -Tighten (with the recommanded torque) the backshell on the connector.

-Tighten the metallic clamp to fix the cable shield on the backshell knurled area.

-Cover with a heat shrink boot, a molded part or proceed an overmolding operation.

Cabling overview of CMA RAIXX backshells



-Prepare cable and backshell items -Solder the cable wires on the connector contacts -Tighten (with the recommanded torque) the backshell on the connector. -Bring the assembly 'Ferrule-shield-cable '

in position inside the backshell pulling on the cable.

-Proceed the crimping operation following the datasheet and the recommended tools.

-Bring the Orings and the elastomer sleeve in position.



Cabling overview of CMA RA81-XXX backshells



-Prepare cable and backshell items -Solder the cable wires on the connector contacts -Tighten (with the recommanded torque) the backshell free ring on the connector giving the orientation wanted. (Orientation of the elbow by angle of 20°).

-Tighten the metallic clamp to fix the cable shield on the backshell knurled area.

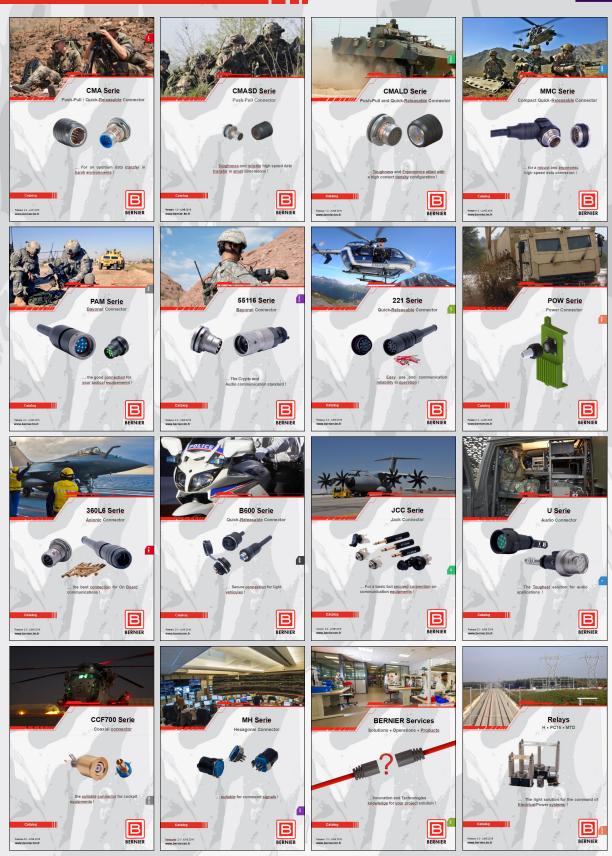
-Cover with a heat shrink boot, a molded part or proceed an overmolding operation.

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