



S.A.I.B. Connectique

DATA SHEET DT 1209 rev B



BAYONET CONNECTORS Military Communication

425 Series

7 cts

10 cts



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SUMMARY

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For any specific demand, please contact us.



SPECIFICATIONS

The 425 Series are audio connectors with bayonet locking system, equipped with 7 or 10 self-cleaning contacts. These robust connectors are designed for radio communication and data transmission applications, optimizing weight and bulkiness.

Highly appreciated by military tactical communication network users across the world, they are referenced in GAM T1 list, comply with technical specifications for the realization of electronic telecommunication equipment for the army, and with VG95351 (7 contacts version).

MATERIAL:

Contacts: Copper alloy / Finish: gold over nickel.
Plug: Stainless steel / Finish: matte black.
Receptacle: Stainless steel / Finish: matte black.
Insulator: Thermoplastic.
Backshell: Aluminum alloy / Finish: matte black.

MECHANICAL:

Locking system: Bayonet (3 lugs).
Mechanical durability: 5 000 operations (mating/unmating).

ELECTRICAL:

Working voltage: 7 contacts 42 V c.c. max.
10 contacts 100 V c.c. max.
Nominal current per contact: 7 contacts 0.5 A max.
10 contacts 1.5 A max.
Contact resistance: < 20 mΩ.
Dielectric: 500 V RMS 50 Hz
Insulation resistance: > 5000 MΩ à 100 V c.c.
Crosstalk: > 100 dB à 8kHz
Cables (7 or 10 contacts): AWG 20

ENVIRONMENTAL:

Operating temperature: -55 °C à 85 °C.
Salt spray resistance: 264 h.
Waterproof: 4 m under water during 2 h (IP68).



✚ The part numbers used in this data sheet are the ones marked on the connectors. Corresponding SAIB part numbers are communicated during requests for quotation.

✚ Correct assembly of connectors and backshells is ensured only on couples of our origin.

Wiring specification DT1238 is available on demand.

For any specific demand, please contact us.

CODIFICATION

EXTENSION



PLUG



Solder-cup termination contact



Connectors' family: 425 - 0 7 F N M 1 7
Number of contacts: 7 / 10
Type: P = Extension / F = Plug
Polarization: N / W
Backshell: M = Straight / R = Knurled for Heat-shrink boot / RA = Special
Connectors' body: 1 = Stainless steel + matte black finish
Sleeve diameter: 5 / 6 / 7

RECEPTACLE



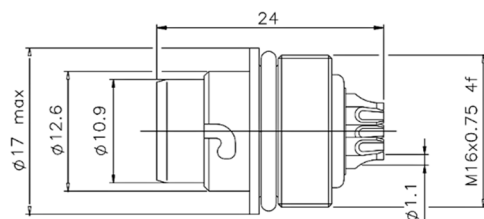
CONTACT TERMINATIONS Solder-Cup Through-hole



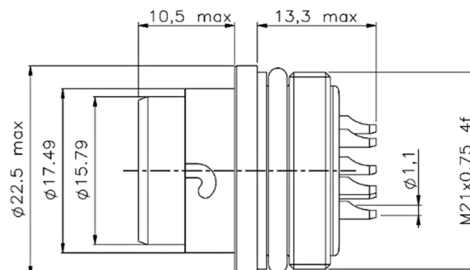
Connectors' family: 425 - 0 7 S N E 1 S J
Number of contacts: 7 / 10
Type: S = Receptacle
Polarization: N / W
Bolt: E = Notched bolt / H = Hexagonal bolt
Connectors' body: 1 = Stainless steel + matte black finish
Contact termination: S = Solder-cup / L or C = Through-hole (See page :6)
J = Conductive O-ring

EXTENSIONS 425-xx Pxxxx

7 contacts



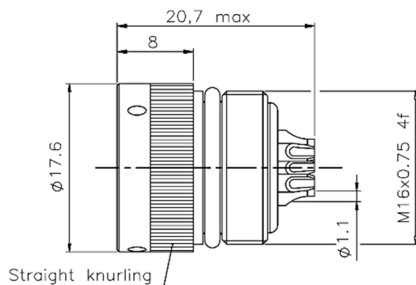
10 contacts



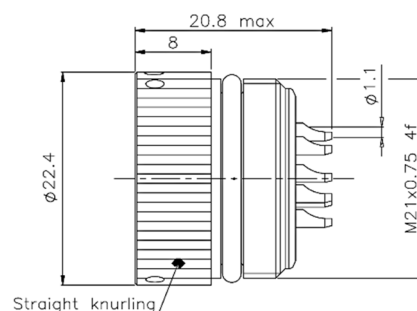
Extensions are equipped with spring contacts with solder cup termination.
 They are available with 7 or 10 contacts,
 and can be equipped with different kinds of backshells (See pages 9 & 10).

PLUGS 425-xx Fxxxx

7 contacts



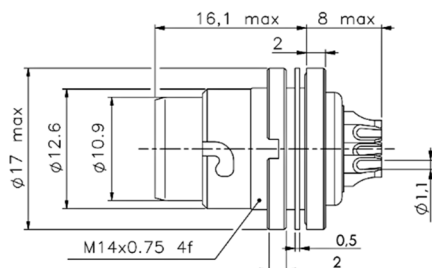
10 contacts



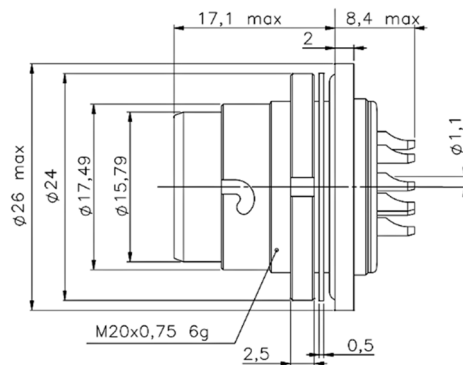
Plugs are equipped with flat contacts with solder-cup termination.
 They are available with 7 or 10 contacts and can be equipped with different kinds of backshells (See pages 9 & 10).

RECEPTACLES 425-xx Sxxxx

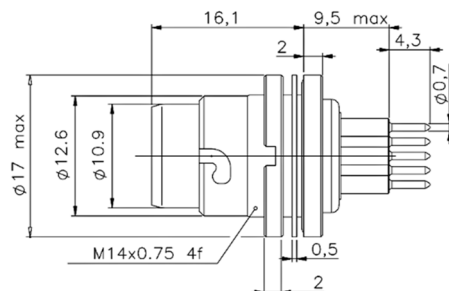
425-07 SxE1S



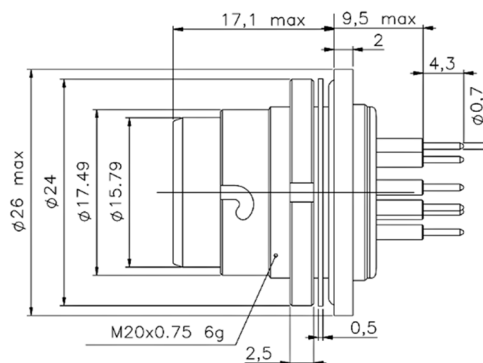
425-10 SxE1S



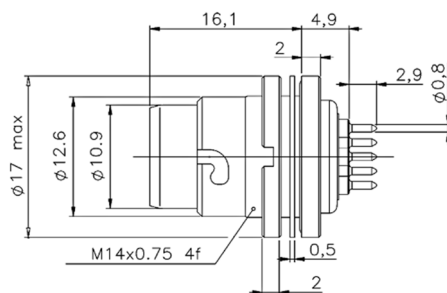
425-07 SxE1L



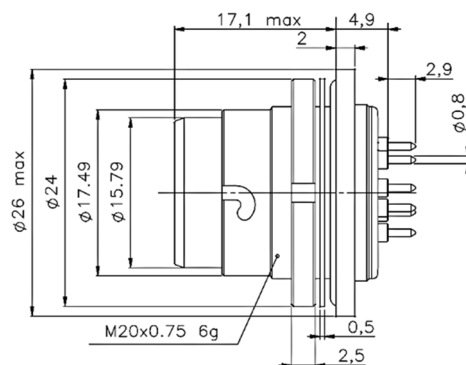
425-10 SxE1L



425-07 SxE1C



425-10 SxE1C

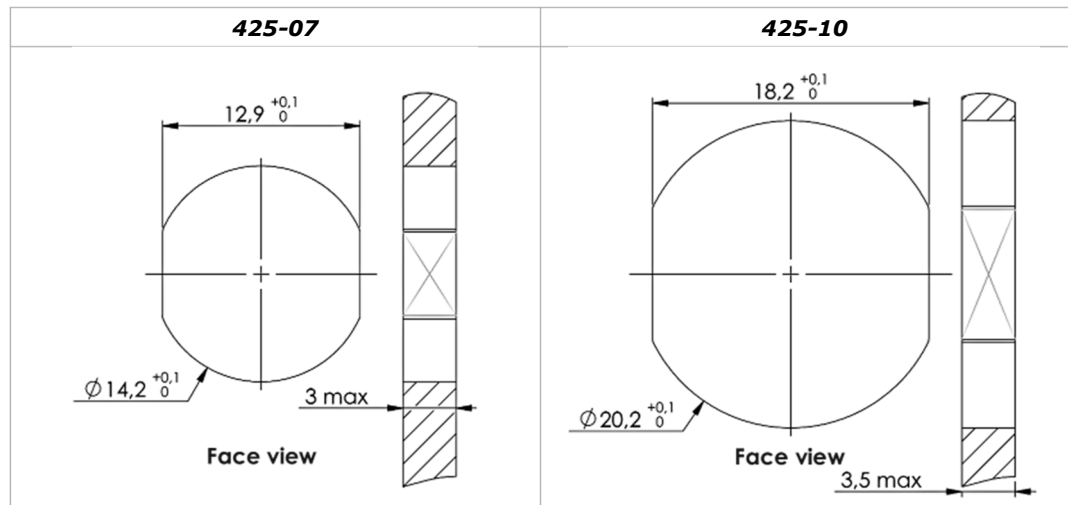


Receptacles are available with 7 or 10 contacts,
and 3 kinds of termination: long (L) or short (C) through-hole, or solder cup (S).
x = polarization coding key
They are meant to be installed from the inside of the panel (See page 7).

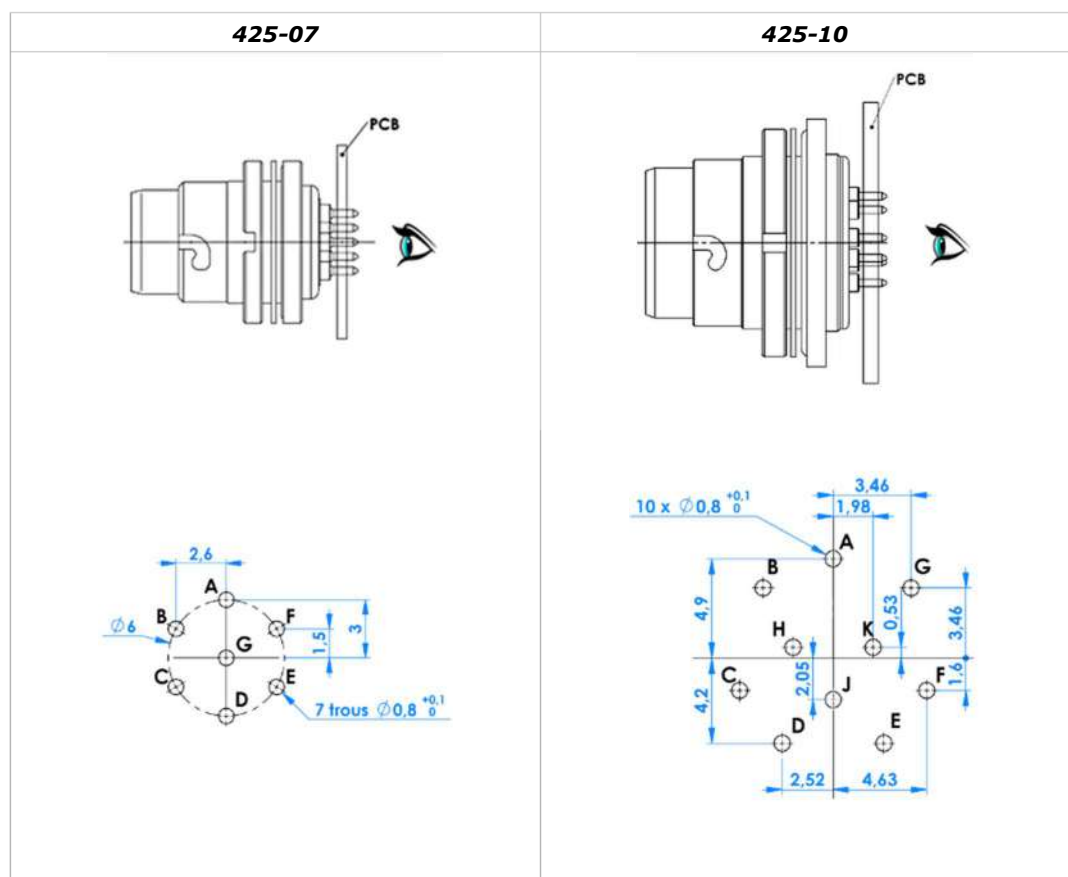
Note: receptacles can be supplied with a conductive O-ring to improve the EMC characteristics and electrical continuity.

INFORMATION TABLES

Recommended panel cut



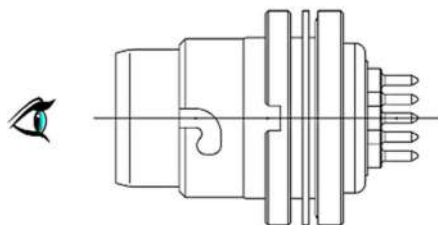
Recommended PC Board pattern



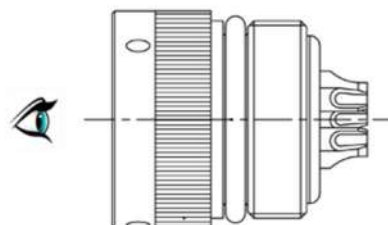
For any specific demand, please contact us.

POLARIZING FEATURES

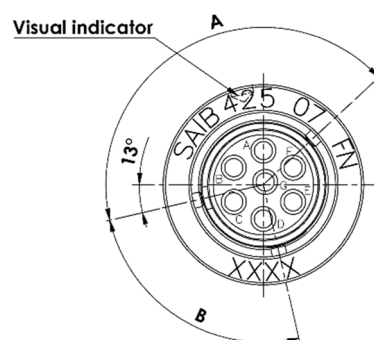
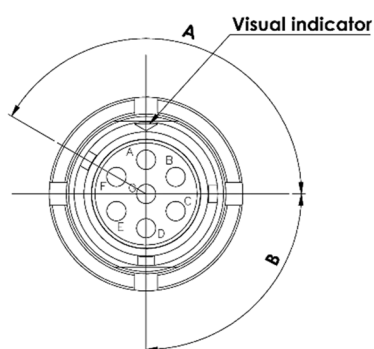
RECEPTACLE



PLUG

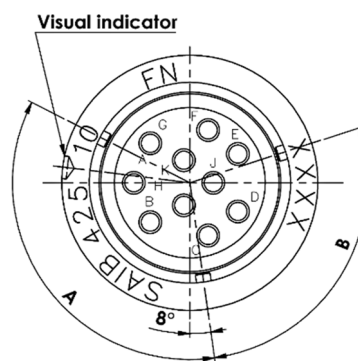
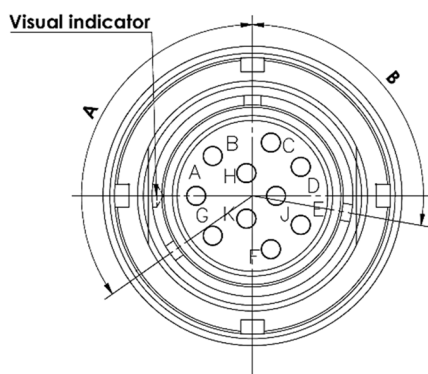


Connector with 7 contacts, from mating side.



Polarization	N	W
A	150°	150°
B	90°	120°
Color mark	Red	Yellow
Other polarizations on demand.		

Connector with 10 contacts, from mating side.



Polarization	N	W
A	125°	130°
B	100°	110°
Color mark	Red	White
Other polarizations on demand.		

For any specific demand, please contact us.

BACKSHELLS FOR

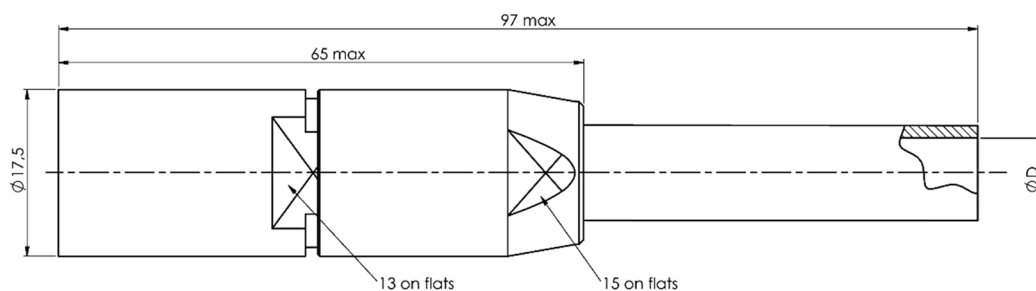
EXTENSION



PLUG

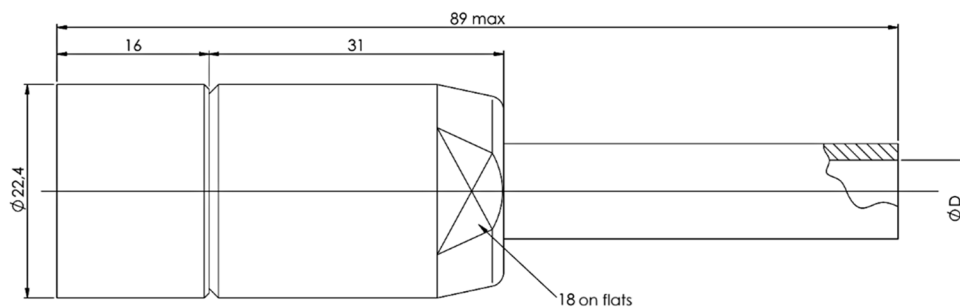


STRAIGHT BACKSHELLS (7 contacts)



Sleeve Ø D	Part number
5.4 mm	425-07 M1.5
6.4 mm	425-07 M1.6
7.4 mm	425-07 M1.7

STRAIGHT BACKSHELLS (10 contacts)

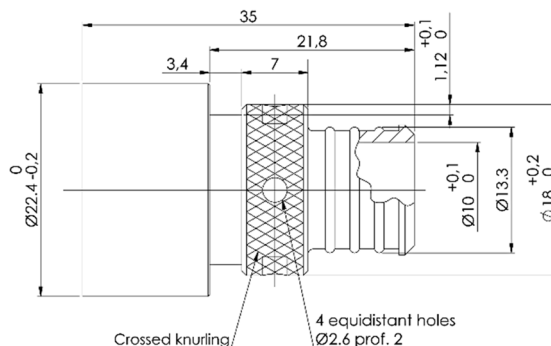


Sleeve Ø D	Part number with plug N
5.4 mm	425-10 M1.5
6.4 mm	425-10 M1.6
7.4 mm	425-10 M1.7

For assembly description, a specification DT1238 is available on demand.

SPECIFIC PRODUCTS

SPECIAL BACKSHELLS



Backshell for band-it and heat-shrink sheath, for use with 10 contacts extensions and plugs.

Part number

425-10 RA03

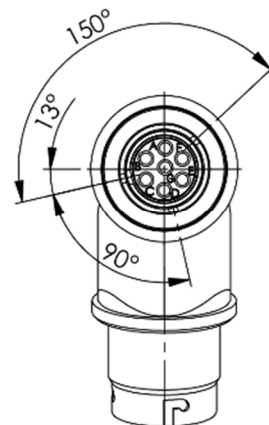
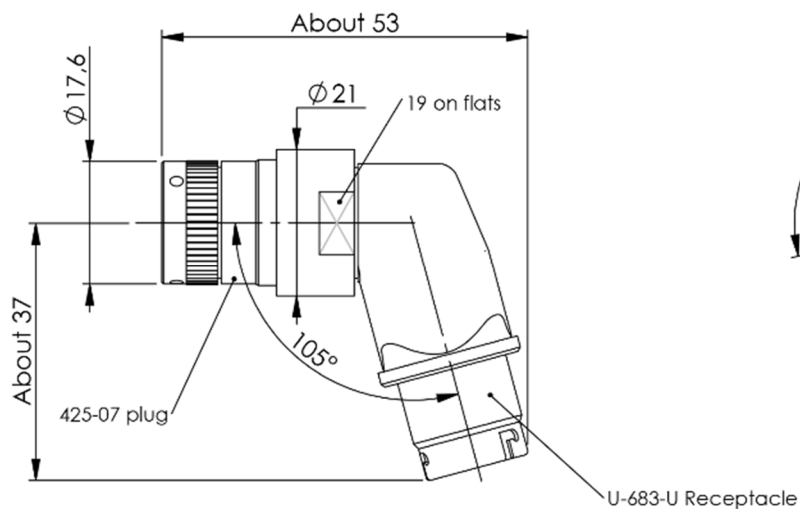
ELBOW ADAPTER

Plug 425-07 / Receptacle MIL U-683-U



Example of an elbow adapter with a male output and a female output, designed according to customer specifications.

SAIB supports you from requirements definition to the design and qualification.



For any specific demand, please contact us.

CODIFICATION OF CAPS

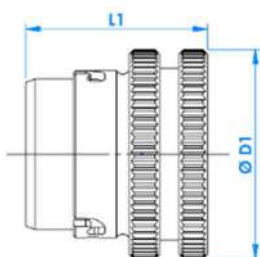
METALLIC CAPS



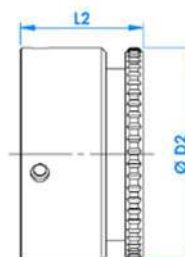
A: for plug



B: for receptacle and extension



	L1	ØD1
7 cts	19	17,6
10 cts	19	22

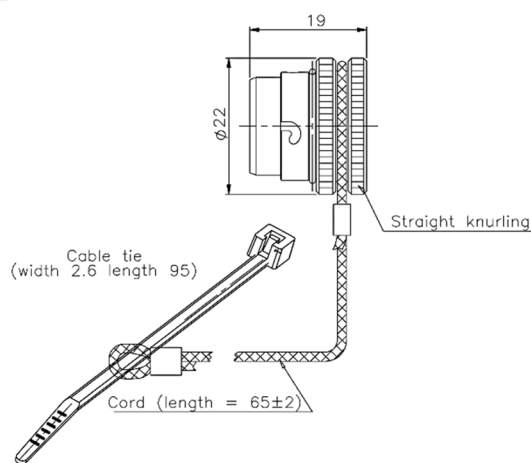


	L2	ØD2
7 cts	12,9	17,6
10 cts	12,9	22,4

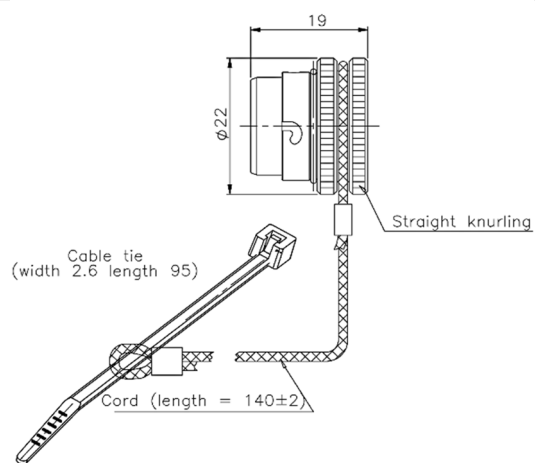
Connectors' family: 425 - 0 7 B N G 1 M 1
 Number of contacts: 7 / 10
 Type: A = cap for plug / B = cap for receptacle and extension
 Polarization: N / W
 Material: G = Stainless steel
 Finish: 1 = matte black
 Type of fixing: For A and B: T = plastic clamp
 For B: M = metallic ring / P = plastic ring / V = eyelet for screw
 Number used for codification; no signification

METALLIC CAPS FOR PLUG

425-10 AxG1 T3

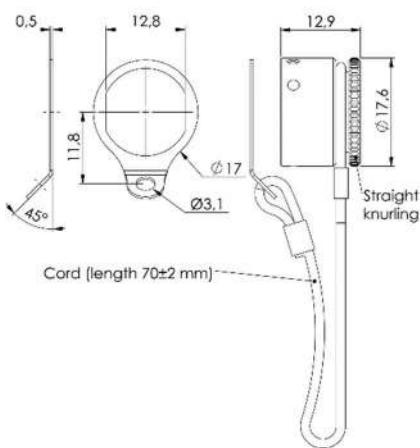


425-10 AxG1 T4

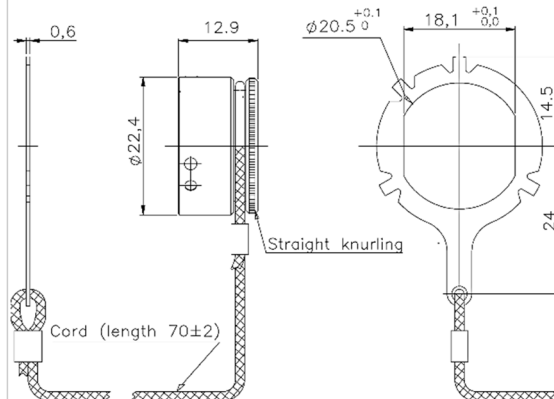


METALLIC CAPS FOR RECEPTACLE AND EXTENSION

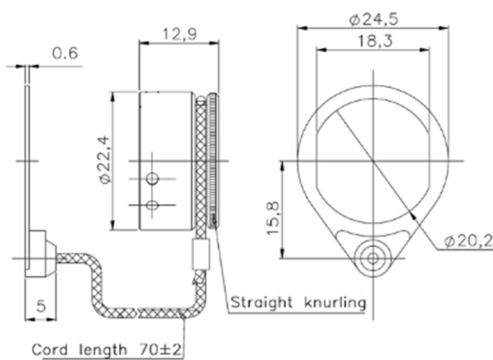
425-07 BxG1 M1



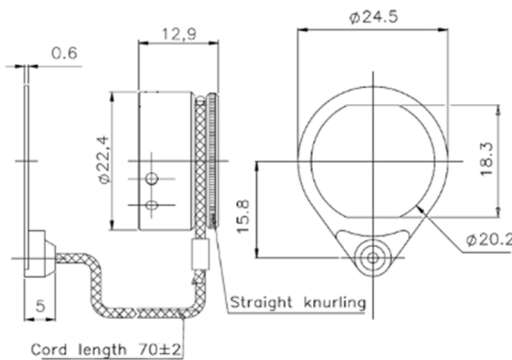
425-10 BxG1 M1



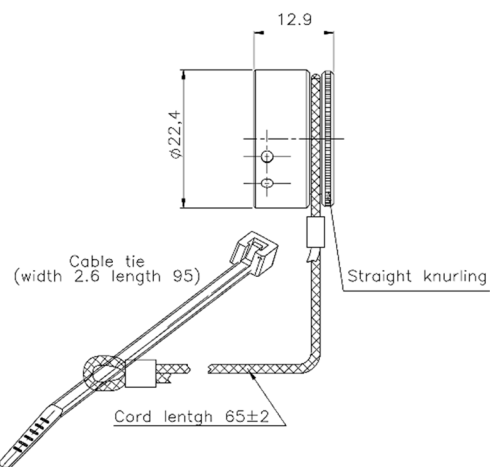
425-10 BxG1 P1



425-10 BxG1 P2



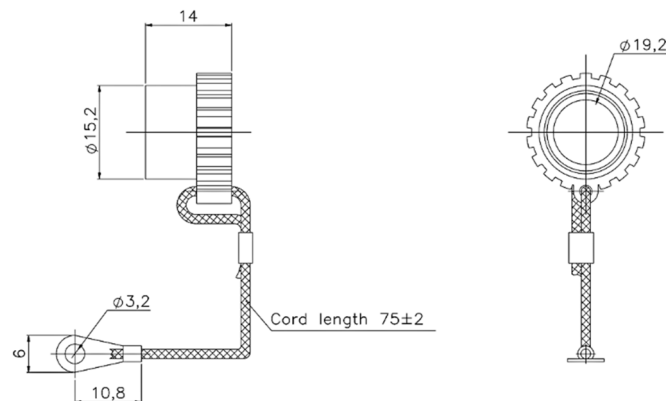
425-10 BxG1 T3



For any specific demand, please contact us.

SPECIAL CAPS

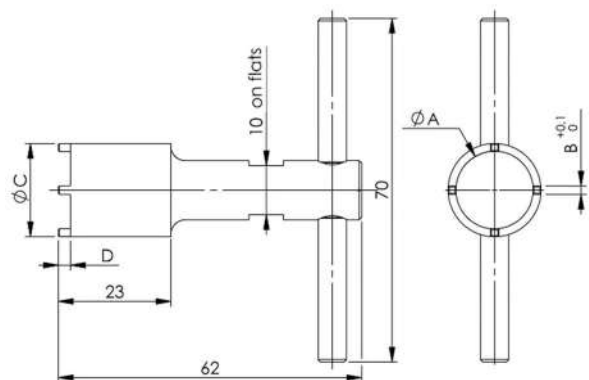
Plastic cap for receptacle 425-07 BKC V1



TIGHTENING TOOL

Tool for the receptacle screw

Dimensions		
	425-07	425-10
Ref	081-221-00	081-222-00
A	15,8	21,8
B	1,7	1,6
C	19	25
D	2,5	2,7



TIGHTENING TORQUE (N.m)				
	Receptacle		Backshell	
Size	425-07	425-10	425-07	425-10
Stainless steel	9	13	6	9