



## U Serie

### Audio Connector



... The Toughest solution for audio applications !

Catalog



## ◆ Description

The U audio connectors with 10 contacts and with bayonet locking are used for the connection of microphones and of loudspeakers for military radio transmitters. They are tough and corrosion-resistant, and are equipped with self-cleaning contacts.

These connectors comply with the following standard :  
MIL C 10544 A.



## ◆ Applications



Radios



Accessories



Intercoms

**Plug**  
On cable



**Receptacle**  
On panel



**Extension**  
On cable



**Metallic extension and receptacle cap**



**Metallic plug cap**



## ◆ Climatic and mechanical characteristics

	U
Unlocking system	Bayonet
Operating temperature	-55°C to +85°C
Endurance	1 500 Opérations
Sealing performance	IP68 (connected and disconnected)
Corrosion resistance	Salt fog : 96 hours (Stainless steel)
Fluids resistance	Oils and hydrocarbons

## ◆ Electrical characteristics

	U
Working voltage	100 V <sub>eff</sub> maxi
Current rating per contact	1 A <sub>max</sub>
Insulation resistance	>1000 MOhms under 100 V <sub>cc</sub>
Contact type	Solder cup / For PCB
Contact resistance	≤ 15 mOhms at 25°C
Dielectric	500 V <sub>eff</sub> , 50 Hz, 1min.
Gauge (AWG)	16

## ◆ Material and Plating

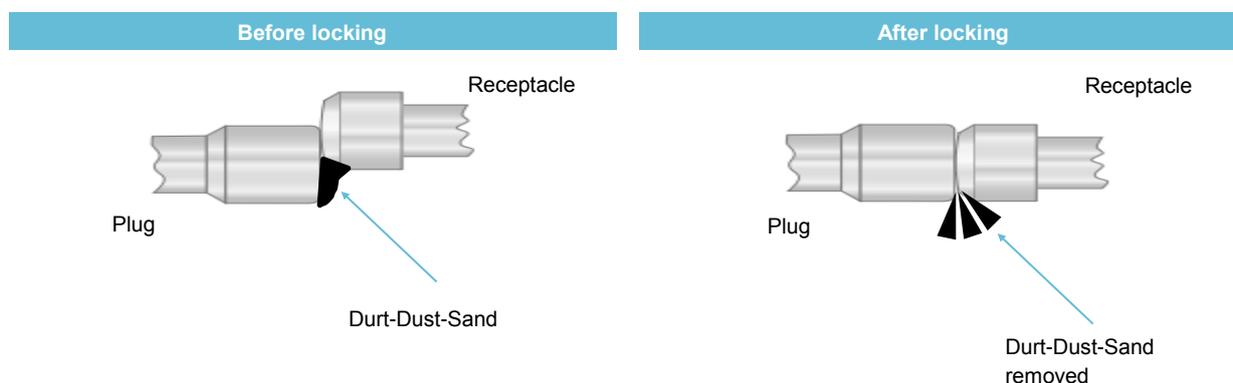
	Material	Plating
Connector shell	Stainless steel	-
Insulator	Thermosetting	-
Contacts	Copper alloy	Gold overnickel / silver
Backshell shell	Aluminium	Black Anodization / Black Chrome



## ◆ Weights

Type	Weights (grams)
Fiche (77, 127)	66 g (U77) 70 g (U127)
Prolongateur (78)	92 g
Embase (79)	58 g
Embase à verrouillage (80)	54 g
Bouchon U79 90001	21 g
Bouchon U79 90002	24 g
Bouchon U79 90003	8 g
Bouchon U79 90004	9 g
Bouchon U79 90006	11 g

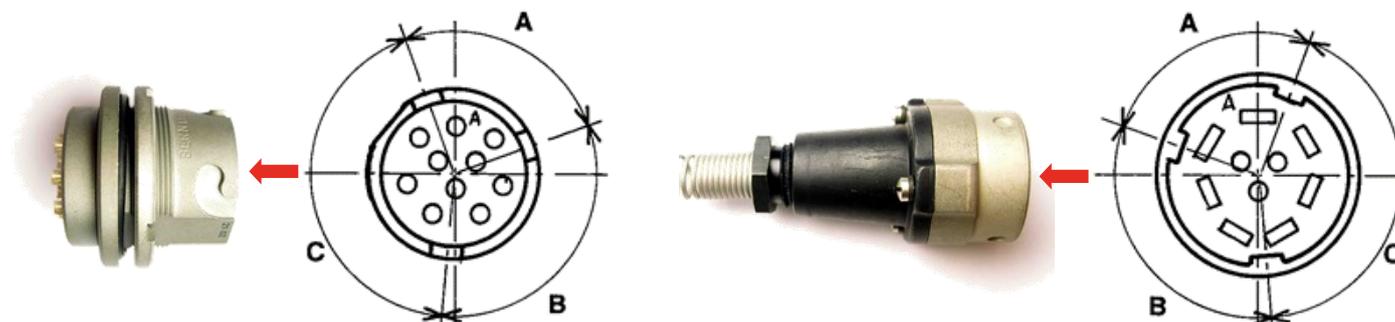
## ◆ Self cleaning contact technology



## ◆ Keyways

A	B	C
90 °	105 °	120 °

- Front view -





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## ◆ Connectors

Description	Code	U	77	/U	MC4
<b>Serie</b>	U	↑			
<b>Connector type :</b> Plug with straight backshell Plug with elbow backshell Extension Receptacle Panel plug Panel through Dummy receptacle	77 127 78 79 80 81 82		↑		
<b>Contact types :</b> Solder cup For PCB	/U /UP			↑	
<b>Backshell type :</b> Spring Ø7 (no code) Sleeve Ø4 Sleeve Ø7 Straight backshell and cable shield continuity Backshell with knurling diam.5.8mm	MC4 MC7 -B550 -90017				↑

## ◆ Caps

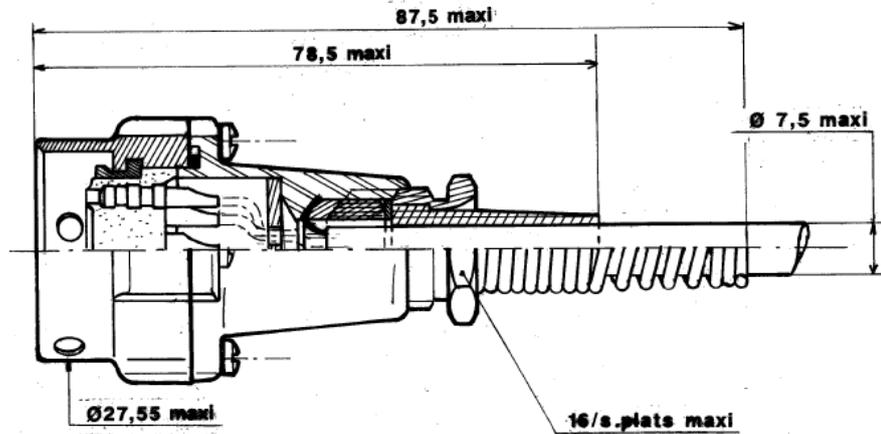
Description	Code	U79	9000	XX
<b>Cap type :</b> For receptacle For extension For plug	U79 U78 U77	↑		
<b>Material :</b> Metallic Plastic	9000 -B586		↑	
<b>Termination :</b> Contact us	XX			↑

C

## ◆ Plugs with straight backshell



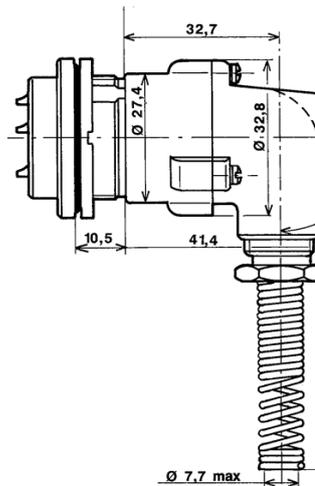
Ex: U77/U



## ◆ Plug with 90° elbow backshell



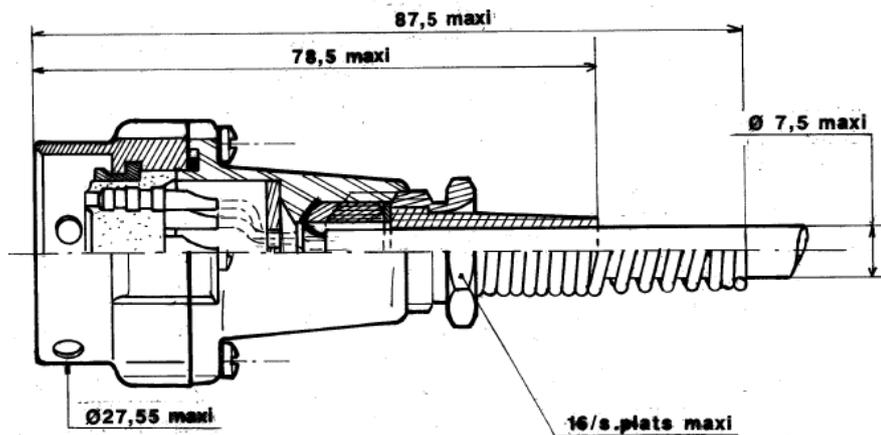
Ex: U127/U



## ◆ Plug with straight backshell and cable shield continuity



Ex: U77/U-B550



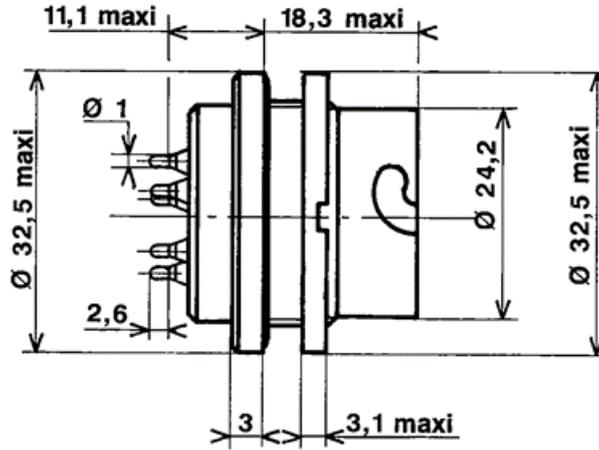


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## ◆ Receptacle with contacts for PCB



Ex: U79/UP

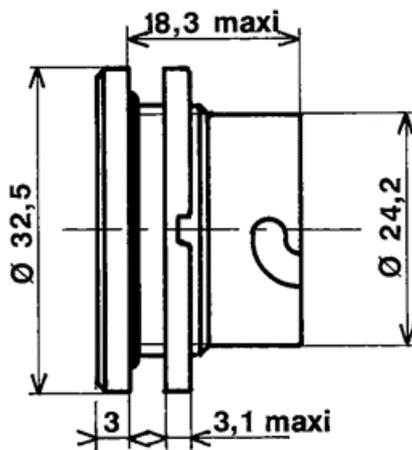


*Version with solder bucket possible*

## ◆ Dummy receptacle

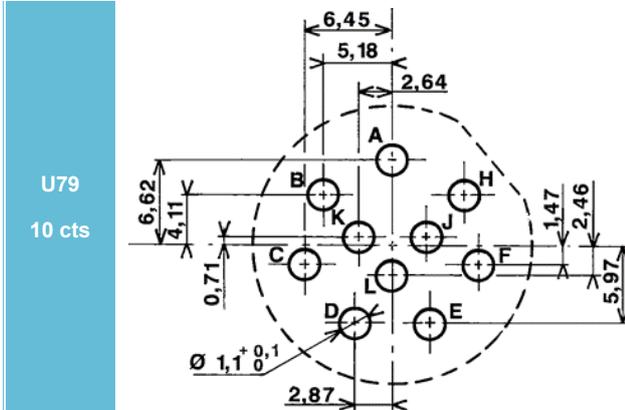


Ex: U-82

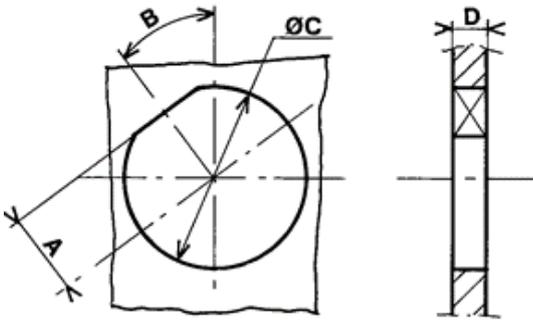


## ◆ PCB holing

Welding side



## ◆ Panel cut

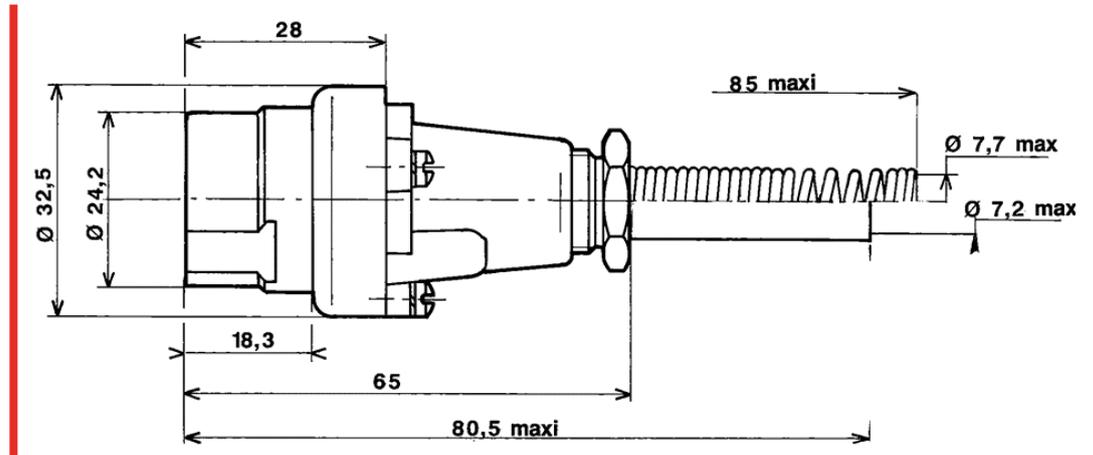


Receptacle type	$\varnothing A^{+0.1}$	$B^{+0.1}$	$\varnothing C^{+0.1}$	D maxi
Receptacle (79, 82)	11.7	50	25.45	4.5
Receptacle (80)	12.4	38° 30'	27.1	4.5

◆ Extension with straight backshell



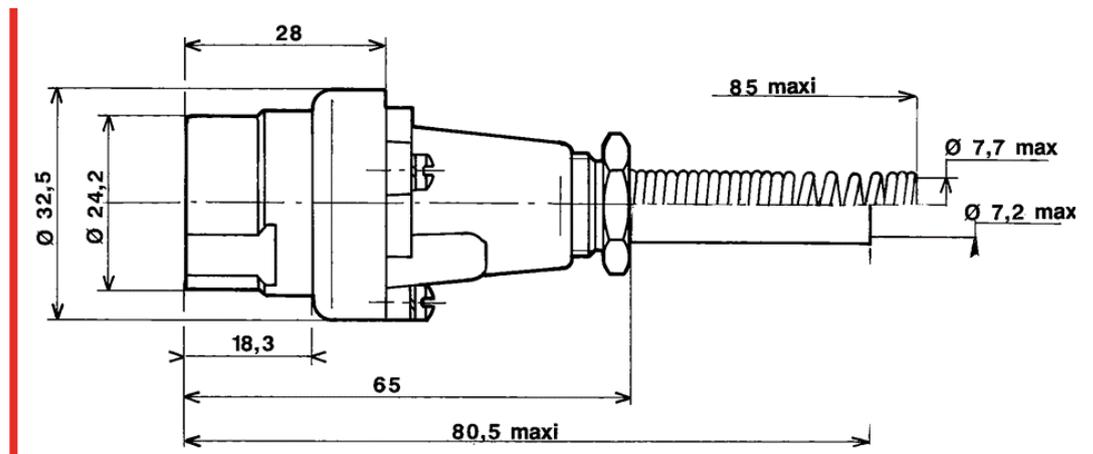
Ex: U78/U



◆ Extension with straight backshell and cable shield continuity



Ex: U78/U-B550



# Accessories



## ◆ Caps



## ◆ Terminations

Some terminations can accept several lanyards

Plastic clamp



Ferule



Metallic ring



Eyelet for M3 screw



Crimped eyelet for M3 screw

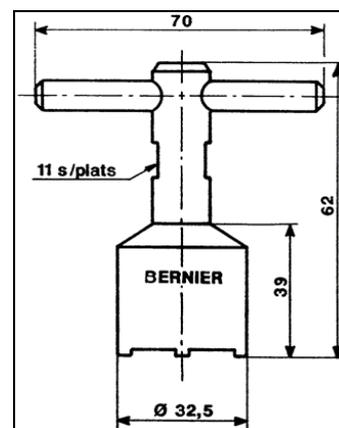


90° crimped eyelet for M3 screw



## ◆ Accessories

Type	Part number
Tightening key for U79/U	8508



## ◆ Tightening torque

Connector material	Torque for receptacle U79 nut	Torque for receptacle U80 nut	Torque for U77, U127 backshell
Stainless steel	15N.m	15N.m	10N.m

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