

221 Serie

Quick-Releasable Connector



… Easy use and communication reliability in operation !

Catalog

Release 3.0 - NOVEMBER 2026

www.bernier.tm.fr

a HEICO Company

Description

The 221 connectors are designed for applications requiring quick-disconnection. Used on military and civil planes and helicopters, they provide all types of communication between on board equipments and external connections.

Customer specifications : STTE N°269PNI/1
Environmental specification : AIR 7304
Electrical specification : MIL-C-38999.

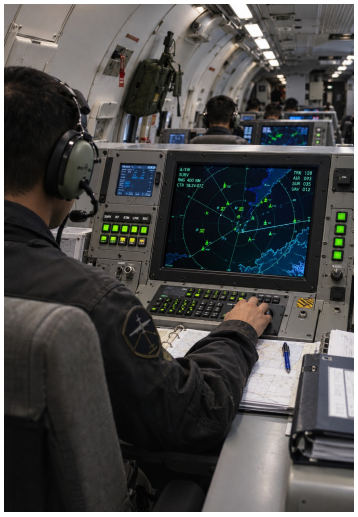
Quick-releasable

Ergonomics

Watertight

Aluminium

Applications



Radios



Accessories



Intercoms

Images generated by artificial intelligence (ChatGPT)

Synoptic


Plug
On cable
22111001
22111011
Receptacle
On panel
22111003
22111013
22111004
Receptacle and Extension metallic cap
22111006
Extension
On cable
22111005
22111007
22111002

Climatic and mechanical characteristics

	Quick-releasable : Traction Force (25N ≤ F ≤ 40N)
Operating temperature	-45°C to + 125°C
Endurance	500 Operations
Sealing performance	IP68 (connected and disconnected)
Contacts protection	100% scoop-proof
Vibrations	55Hz at 2000Hz at 10g (6 hours)
Fluids resistance	Oils and hydrocarbons

Electrical characteristics

	1800 V_{max} at 50Hz
Current rating per contact	7.5 A_{max}
Gauge (AWG)	20
Contact type	To be crimped
Contact resistance	≤ 10 mOhms à 25°C
Insulation resistance	≥ 5000 MOhms
Crosstalk on mated pairs	<110dB à 8Khz

Material and plating

	Aluminium	-
Insulator	PPS / Fluorosilicon	-
Contacts	Copper alloy	Gold over nickel
Backshell shell	Aluminium	Black chrome

Additional information

Weights

22110001	33 g
22111002	33 g
22111003	14 g
22111004	14 g
22111005	32 g
22111006	11 g
22111011	36 g
22111013	17 g

Standard material

Dimensions (mated/unmated)

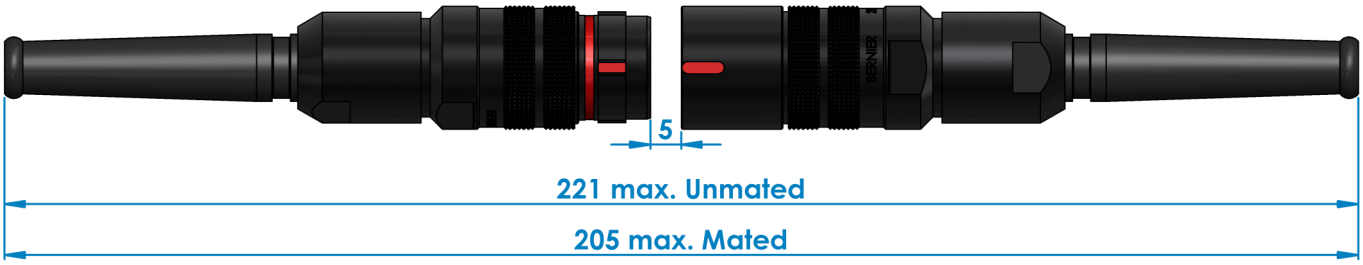
Receptacle without panel sealing / plug :



Receptacle with panel sealing / plug :



Extension / plug :

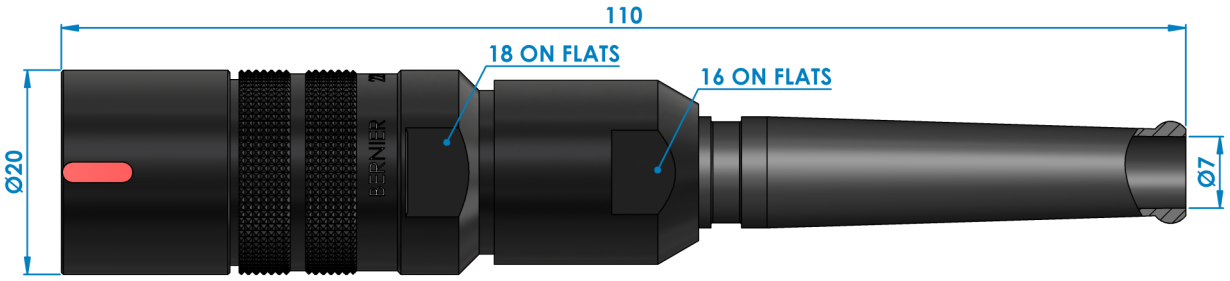


Plug with straight backshell (diam 7mm)



Part number	
22111001	10 male contacts (AWG20)
22111011	10 female contacts (AWG20)

Ex: 22111001

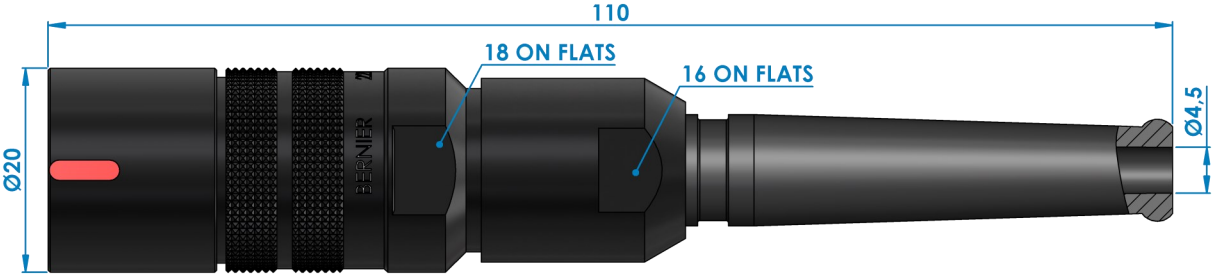


Plug with straight backshell (diam 4.5 mm)



22111001-45	10 male contacts (AWG20)
22111011-45	10 female contacts (AWG20)

Ex: 22111001-45



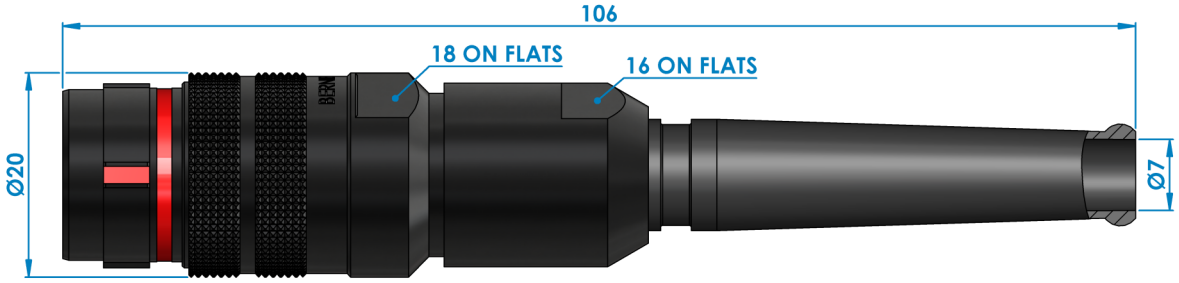
Extensions

Extension with straight backshell (diam 7mm)



Part number	
22111007	10 male contacts (AWG20)
22111005	10 female contacts (AWG20)

Ex: 22111005

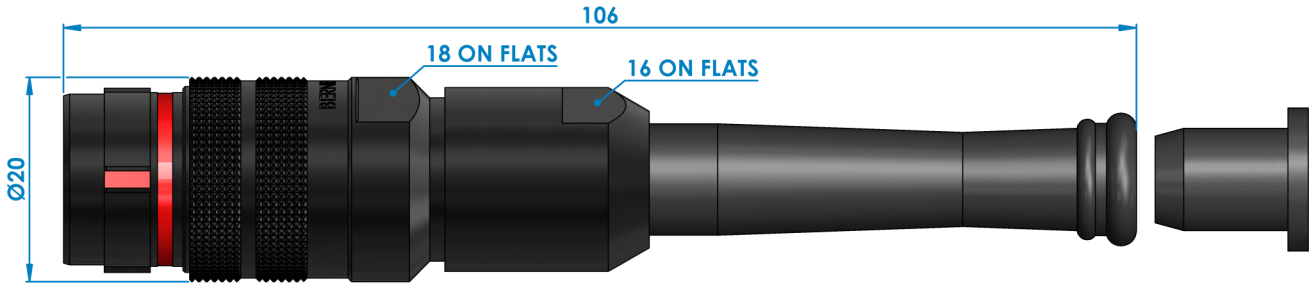


Extension with straight backshell (diam 7mm) and panel fixing



22111002	10 female contacts (AWG20)

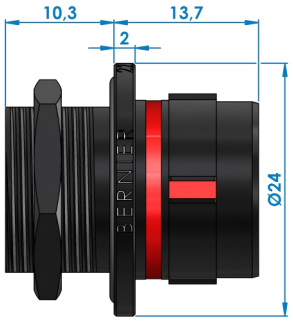
Ex: 22111002



Receptacle with panel sealing



Part number	
22111013	10 male contacts (AWG20)
22111003	10 female contacts (AWG20)

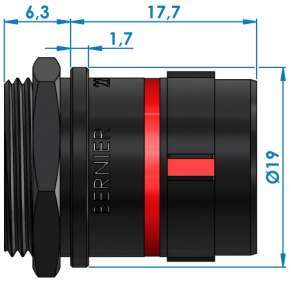


Ex: 22111003

Receptacle with no panel sealing



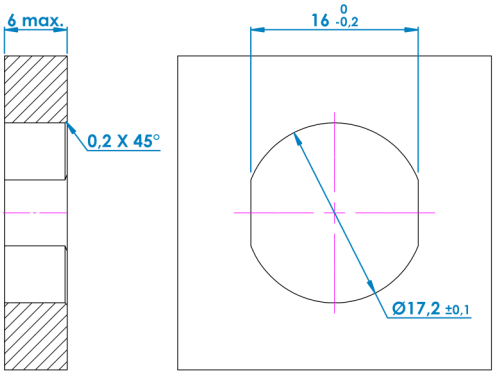
22111004	10 female contacts (AWG20)



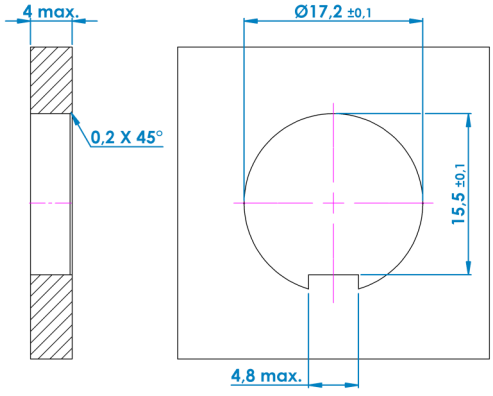
Ex: 22111004

Panel cut

For receptacle with panel sealing



For receptacle with no panel sealing



Caps and fixing

Caps

Metallic cap for receptacle



22111006

Please contact us for other cap versions (for plug or elastomer)

Terminations

Some terminations can accept several lanyards

Plastic clamp













Accessories

Type	
Set of 10 male contacts + 5 shutters	11423
Set of 10 female contacts + 5 shutters	11424
Set of 8 long male contacts + 2 short male contacts + 5 shutters	11425



11423



11424



11425

Tooling—cabling

Tools

Plastic insertion/extraction tool for male / female contact	M81969/14-02
Hand crimp tool	M22520/1-01
Turret head	M22520/1-04



M81969/14-02



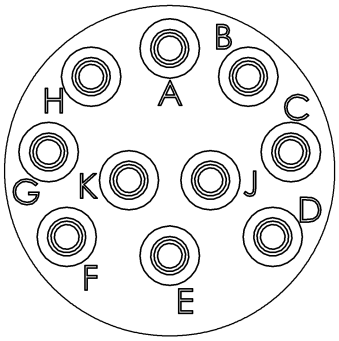
M22520/1-01



M22520/1-04

Contacts positions

Mating side view



Tightening torque

Material		
Alliage Aluminium	*8^{+2} N.m*	*6 N.m*



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