Amphenol SOCAPEX

RNJ

Rack and panel cylindrical connectors

www.amphenol-socapex.com

ABOUT AMPHENOL SOCAPEX

Proven excellence in interconnect solutions

Since **1947**, Amphenol Socapex has prescribed, designed and manufactured reliable and innovative interconnection solutions for **harsh environments**, specializing in standard and customized electrical and fiber optic connectors, contacts, accessories and cabling solutions.
Located in the **Mont Blanc** region of France and Pune in India, Amphenol Socapex has a presence in over 100 countries around the world.
Amphenol Socapex is part of the international **Amphenol Corporation**.

800+ employees

Net Sales 2018: **72,5 M€**
68% Export - 32% France

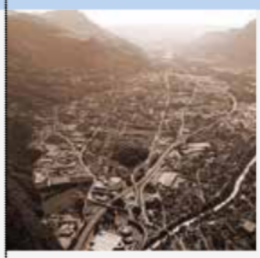
Two facilities :
Thyez (France), **Pune** (India)

OUR HISTORY

1947

- Socapex creation in Suresnes, France
- 1st radio connector

1956-57



- Manufacturing unit in Cluses (74), France
- Thomson-CSF becomes primary shareholder

Early 1960's

- 1st board level connectors: HE8
- 1st "licence Bendix" manufactured connectors
- SL Series launch

1973

- New factory 13 000 m² in Thyez (74) France with 250 people

1975

- Production of 38999 connectors

2014-2017


Quadrax Contacts


Cable Assembly

- New Cable Assembly workshop
- New Contact Manufacturing workshop

Today and tomorrow | New technologies

Miniaturization
High-speed signals
Fiber optics
Rugged Ethernet
Power
Miniaturization
ROHS solutions
Rugged Ethernet
Power
Fiber optics
ROHS solutions
Advanced Materials (composite)
Power
Miniaturization
ROHS solutions

INTERNATIONAL EXPERTISE

Our expertise has no boundaries

Integrated Production in France & India
- **24 000 m²** manufacturing capacity on 2 sites
- Design centers in **France** and **India**
- State-of-the-art manufacturing technology

France - India

Our markets

Military

Communication Systems - Radios - C4ISR / Ground vehicles - Vetronics / Marine / Missiles

Aviation

Commercial & military / Avionics / Engines / Landing gear / Actuators

1986

Amphenol Socapex

- Amphenol becomes primary shareholder

1995-96

- Expanded Beam connector CTOS launch
- Headquarters transferred to Thyez

2004

- RJ Field launch, "Award Electronica"

2005

- Opening of manufacturing site in Pune, India

2010's

LuxBeam™

HDAS

- LuxBeam™ and HDAS launch

Today and tomorrow | Sustainable development

Respect for nature and the environment

Optimization of natural resources

Recycling

Goodwill

Waste Management

Optimization of natural resources

Goodwill

Respect for nature and the environment

Waste Management

Recycling

PRODUCING FASTER, SMALLER, STRONGER CONNECTORS...

Technologies & innovation

Technological Center

Engineering Laboratory for product testing and qualification, product expertise and metrology

- Mechanical and electrical skills
- RF and fiber optics expertise

High-Speed Expertise

Strong expertise in high-speed signals

- 3D EM simulation software & EM models
- Time Domain and frequency domain (VNA 20GHz, TDR and eye diagram)

Materials Expertise

Focus on materials expertise and manufacturing techniques to produce faster, smaller and stronger products

- 3D CAD mechanical software, simulation & analysis
- Disruptive metal alloys, additive manufacturing

Eco-responsibility

Sustainable environment approach, with pro-active management of regulations (REACH / RoHS / Conflict minerals…)

- New materials development, plating, and suitable processes
- Recycling and rational resources consumption

Our workshops

Our workshops located in France & India provide consistent quality adapted to your volume requirements.

Molding : Solid expertise in thermoplastic elastomer and thermoset molding
Machining : Manufacturing of cylindrical shells from 10 to 90 mm in diameter and rectangular shells
Screw Machining : Cylindrical production parts up to 10 mm in diameter
Plating : Plating with cadmium, nickel, electroless nickel, silver, black zinc nickel, gold
Assembly : Sub-assembly, harnessing, cabling, bonding and marking for small & large volumes

Our certifications

Certified Management System | Certified Management System | Certified Management System | Certified Management System

Product certifications : MIL-DTL38999, EN3645, EN3155, VG

Our memberships

GICAT MEMBER | GIFAS | MONT-BLANC EXCELLENCE INDUSTRIES | AEROSPACE cluster RHONE-ALPES | acsiel

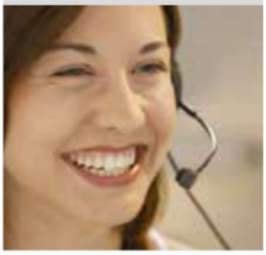
Member of CMG (Connecting Manufacturing Group) Consortium

DELIVERING GREAT CUSTOMER EXPERIENCE

▸ **We have a strong reputation for helping customers solve their toughest challenges. This approach of serving your needs is ingrained in our company – from our sales team to our product development engineers.**

A partner you can trust

Customer Proximity



Design Expertise

Quality Commitment

On Time Delivery Performance

Compliance manager

Buy our solutions

You can access our solutions through our global network of sales offices or through our distributors.

Field Sales Team :
12 in France
15 in Europe
100+ in North America and rest of the world.
5 Business Development Managers supporting local sales force Europe, North America and the rest of the world

Technical Support & Multilingual Customer Service :
15 people

Worldwide Distribution Network :
Including qualified distributors (QPL approved) for assembling : MIL-DTL-38999, PT/451/VG95328 & Fiber Optics connectors

NOTES

RNJ - RACK AND PANEL CYLINDRICAL CONNECTORS

MAIN CHARACTERISTICS

EMI shielding

• Shells are grounded before contact mating

• Lightweight space saving design

• Durability: - 500 cycles

• Moisture resistance: in addition to interfacial seal, main joint souffler and rear gasket on the plug are set up for moisture sealing between connector halves

• Corrosion resistance:

• Olive drab cadmium over nickel plating on aluminium shell (withstands 500 hours of salt spray exposure) or electroless nickel

• Free cadmium version also available.

• 8 shell sizes from 11 to 25

• Contact protection:

• 100% scoop-proof. The design prevents bent pins and a short circuit occuring during mating.

• Between 1 and 128 contacts in accordance with Mil-C-39029 standard

• Crimp contacts sizes 22D, 20, 16, 12, 8, 4, 00.

• PCB contacts sizes 22D & 20 (size 16, 12, 8, please consult Amphenol)

• Wire-wrap contacts sizes 22D & 20

• Optical termini (POM series) in accordance with Mil-T-29504 standard

• For environmental applications: - Supplied without rear accessories. Design provides serrations on rear threads of shells.

Compatible with some M 85049 rear accessories for MIL-DTL-38999 I connectors.

Please consult us.

• Temperature range: -65°C +175°C

• Insulation resistance > 5000 Mohms at ambient temperature under 500 Vcc

DESCRIPTION

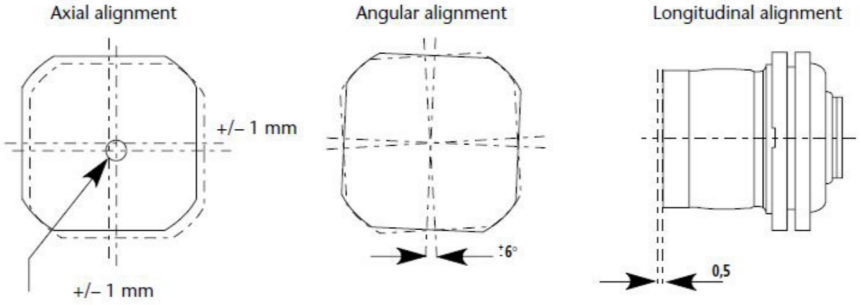
The RNJ series rack and panel connectors are qualified for the requirements of the standard DAT C 5935 x 0005 HE308 21, 25, 26 & 27T models. They are used to connect electrical and optical devices between a moving unit (rack) and a fixed unit (panel) without any coupling / uncoupling device. This function is ensured by a system of moving and the fixed units.

The connectors are built to allow for design tolerances (up to the limits shown in figure 1) during the mating of the connectors and the final locking of the moving and fixed units. These connectors are derived from the LJT series and meet or exceed the MIL-DTL-38999 Series I requirements.

APPLICATIONS

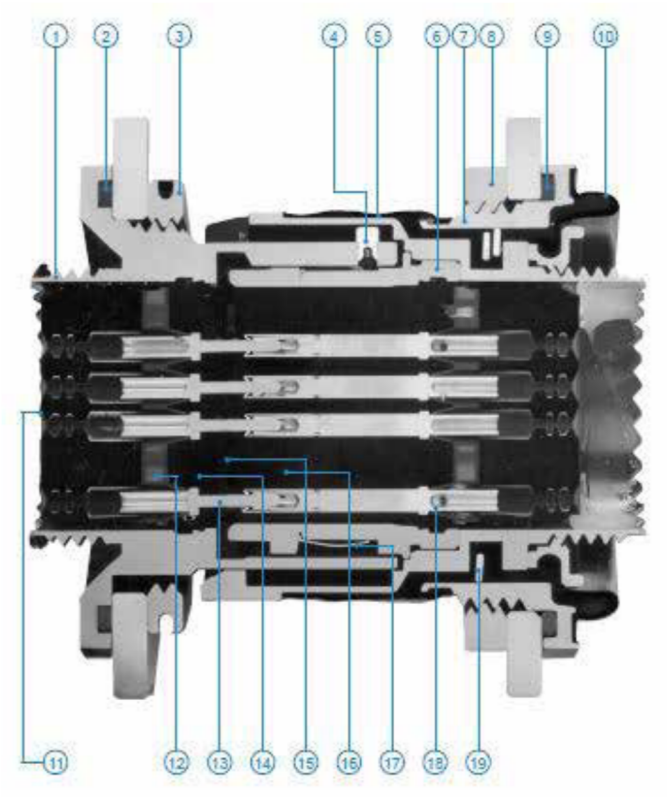
• Military applications & Aeronautic

• Advanced industrial applications



PRESENTATION

1 - Receptacle shell
2 - O ring
3 - Hexagonal nut
4 - Rivet
5 - Sealed membrane
6 - Free plug shell
7 - Fixed plug shell
8 - Panel nut (plug)
9 - O ring
10 - Sealed membrane
11 - Grommet
12 - Dielectric retention disc
13 - Pin contact
14 - Male insert
15 - Interfacial seal
16 - Female insert
17 - Grounding fingers
18 - Socket contact
19 - Spring washers



ENVIRONMENTAL CHARACTERISTICS

Temperature range: -65°C to +175°C
• High temperature endurance 1000 hours
• Humidity 100% R.H.
• Air leakage:
• Receptacles RNJ27: 16 cm3 / h max under 2 bars pressure
• Floating RNJ26 - 46:
Front Face: 16 cm3 / h max under 2 bars pressure
Rear Face: 4 cm3 / h max under 0,5 bar pressure
(higher pressure withstanding available on request)
• Salt spray:
• olive drab cadmium 500 h
• electroless nickel 48 h
• Fluid resistance:
• MIL-L-7808 (lubricating oil)
• MIL-L-23699 (lubricating oil)
• MIL-H-5606 (hydraulic fluid)
• Hydraulic fluid (Chevron M2V)
• MIL A-8243 (defrosting fluid)
• MIL- C- 87936 type I
• MIL-T-5624 (JP5)
• MIL-C-47220 or Coolanol 25 or equivalent
• MIL-G-3056 type I (gasoline)
• Isopropyl alcohol per TT-I-735 grade A or B mixed with mineral spirit TT-T-291 type I or P-D-680 type I

MECHANICAL CHARACTERISTICS

• Insert retention in the shell: 7 bars

• Contact retention in the insert:

Contact size	22D	20	16	12	8	4	00
Maximum load (N)	45	67	110	110	150	150	150

• Mating and unmating forces

Shell size	Maximum mated force (daN)	Maximum unmated force (daN)
11	20	12
13	30	13
15	35	15
17	50	16
19	55	18
21	65	22
23	80	27
25	102	34

• Durability: 500 cycles

• Sine vibrations 10 . 2000 Hz 30g

• Random vibrations 10 . 2000 Hz 28g

• Shocks: 150g 3 ms 1/3 sinus

ELECTRICAL CHARACTERISTICS

• Contact rating: nominal current per contact:

Contact size	22D	20	16	12	8	4	00
Current (A)	5	7.5	13	23	60	100	230

• Contact resistance:

Contact size	22D	20	16	12	8	4	00
Current resistance (mohms)	8	4.7	2	1.1	0.6	0.26	-

• Insulation resistance: - at ambient > 105 Mohms
- at maximum temperature > 103 Mohms

• Service rating:

Service (p. 5/6)	Dielectric withstanding voltage (Vrms)								Working voltage	
	At sea level		15000 meters		21000 meters		34000 meters			
	Mated	Unmated	Mated	Unmated	Mated	Unmated	Mated	Unmated	Vrms	Vdc
M	1300	1300	800	550	800	350	800	200	400	550
I	1800	1800	1000	600	1000	400	1000	200	600	850
II	2300	2300	1000	800	1000	500	1000	200	900	1250

• Dimensions of acceptable contacts and cables:

Contact size	Contact Diameter mm (in)	Crimp barrel		Acceptable cables						
		Diameter mm (in)	Depth mm (in)	Gauge AWG / Section mm² (sq in)				Outside diameter mm (in)		
								Min	Average	Max
22D	0.76 (0.030)	0.88±0.03 (0.035±0.001)	3.58 (0.141)	22	24	26	28	0.76 (0.03)	1.20 (0.047)	1.37 (0.054)
				0.38 (0.015)	0.22 (0.009)	0.15 (0.006)				
20	1 (0.039)	1.19±0.03 (0.039±0.001)	5.30 (0.209)	20	22	24		1.02 (0.04)	1.83 (0.072)	2.11 (0.083)
				0.60 (0.024)	0.38 (0.015)	0.22 (0.009)				
16	1.57 (0.062)	1.70±0.03 (0.067±0.001)	5.30 (0.209)	16	18	20		1.68 (0.066)	2.41 (0.095)	2.77 (0.109)
				1.34 (0.053)	0.93 (0.037)	0.60 (0.024)				
12	2.36 (0.093)	2.54±0.06 (0.100±0.002)	10 (0.394)	12	14			2.46 (0.097)	3.20 (0.126)	3.61 (0.142)
				3.30 (0.013)	1.94 (0.076)					
8	3.60 (0.093)	4.6 +0.05 (0.181+0.002)-0	10 (0.394)	8 Min: 8.98 - Max: 10 (MIN: 0.354 - MAX: 0.394)				4.50 (0.177)	-	5.8 (0.228)
4	5.75 (0.226)	7.4±0.05 (0.291±0.002)	12 (0.4724)	21.10 (0.831)				7.73 (0.304)	8.08 (0.318)	8.43 (0.332)
00	12 (0.472)	14.6+0.05 (0.575±0.002)	21 (0.827)	100 (3.937)				13.3 (0.524)	-	14.7 (0.579)

INSERT ARRANGEMENTS

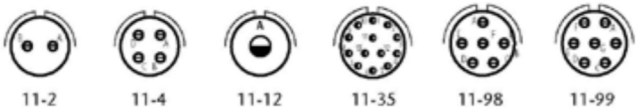
FRONT FACE VIEW OF MALE INSERT

The major keyway is shown in the «normal» position

Contact size	22D	20	16	12	8	4	00
Caption	◐	⊖	⊕	◒	●	○	⊗

① : RNJ insert arrangement reference
② : Number of contacts
③ : Contact sizes
④ : Service (See page 3)

SIZE 11 SHELL



	11-2	11-4	11-12	11-35	11-98	11-99
①	11-2	11-4	11-12	11-35	11-98	11-99
②	2	4	1	13	6	7
③	20	20	12	22D	20	20
④	I	I	II	M	I	I

SIZE 13 SHELL

	13-35	13-98	13-4
①	13-35	13-98	13-4
②	22	10	4
③	22D	20	16
④	M	I	I

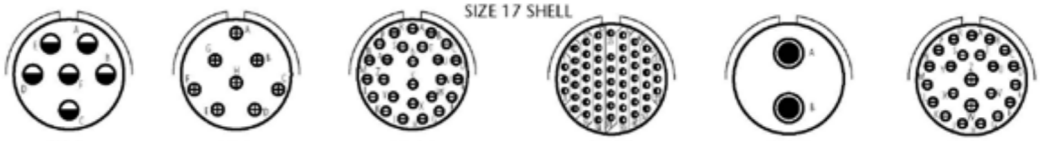
SIZE 13 SHELL

	13-26
①	13-26
②	6+2
③	22D 12
④	M

SIZE 15 SHELL

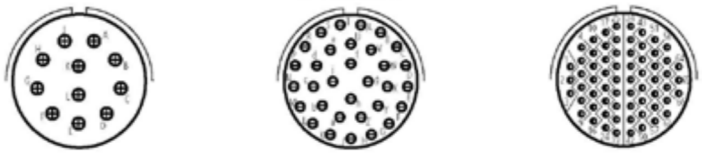
	15-5	15-19	15-35	15-97
①	15-5	15-19	15-35	15-97
②	5	19	37	4 + 8
③	16	20	22D	16 20
④	II	I	M	I

SIZE 17 SHELL



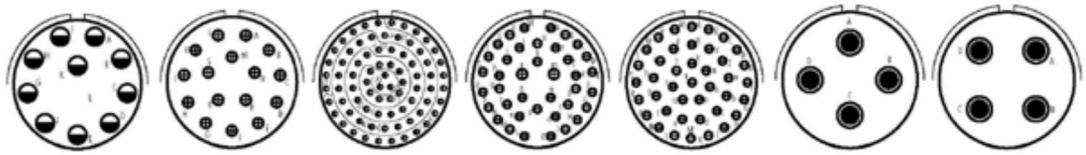
	17-6	17-8	17-26	17-35	17-75	17-99
①	17-6	17-8	17-26	17-35	17-75	17-99
②	6	8	26	55	2	2 + 21
③	12	16	20	22 D	8 TWINAX	16 20
④	I	II	I	M	I	I

SIZE 19 SHELL

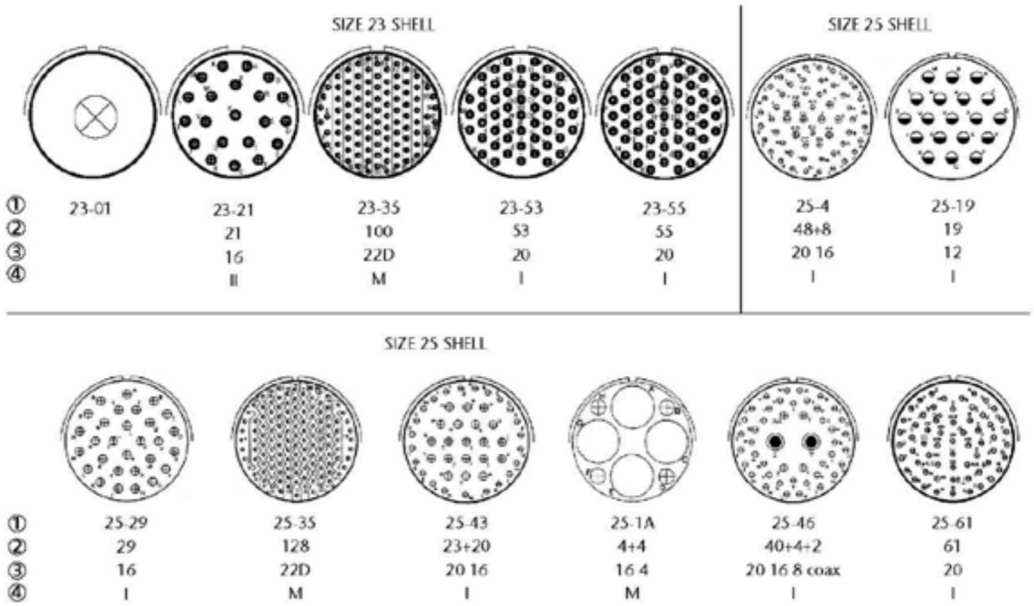


	19-11	19-32	19-35
①	19-11	19-32	19-35
②	11	32	66
③	16	20	22 D
④	II	I	M

SIZE 21 SHELL



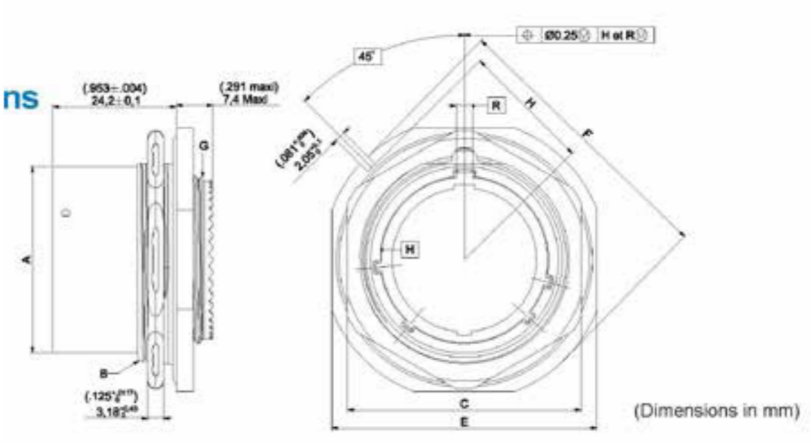
	21-11	21-16	21-35	21-39	21-41	21-48	21-75
①	21-11	21-16	21-35	21-39	21-41	21-48	21-75
②	11	16	79	2 + 37	I	4	4
③	12	16	22D	16 20	41	8 Puissance	8 Coax
④	1	11	M	I	20	M	I



Insert arrangements	Service (see page 4)	Number of contacts	Number of contacts by size							
RNJ			22D	20	16 Power	12 Power Coax	8 Coax Triaxial	8 Power	4 Power	00 Power
11-2	I	2		2						
11-4	I	4		4						
11-12	II	1				1				
11-35	M	13	13							
11-98	I	6		6						
11-99	I	7		7						
13-4	I	4			4					
13-26	M	8	6			2				
13-35	M	22	22							
13-98	I	10		10						
15-5	II	5			5					
15-19	I	19		19						
15-35	M	37	37							
15-97	I	12		8	4					
17-6	I	6				6				
17-8	II	8			8					
17-26	I	26		26						
17-35	M	55	55							
17-75	I	2					2			
17-99	I	23		21	2					
19-11	II	11			11					
19-32	I	32		32						
19-35	M	66	66							
21-11	I	11				11				
21-16	II	16			16					
21-35	M	79	79							
21-39	I	39		37	2					
21-41	I	41		41						
21-48	I	4						4		
21-75	I	4					4			
23-01		1								1
23-21	II	21			21					
23-35	M	100	100							
23-53	I	53		53						
23-55	I	55		55						
25-4	I	56		48	8					
25-19	I	19				19				
25-29	I	29			29					
25-35	M	128	128							
25-43	I	43		23	20					
25-1A	M	8			4				4	
25-46	I	46		40	4		2			
25-61	I	61		61						

Please consult us for other insert arrangements.

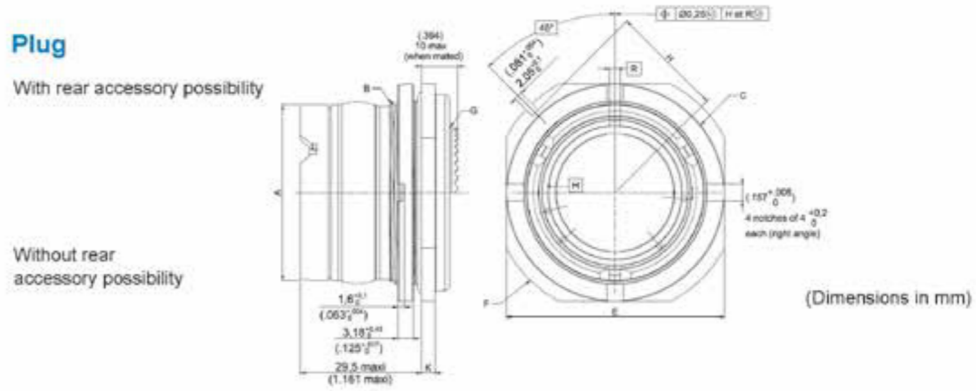
OVERALL DIMENSIONS



RECEPTACLE

Jam nut receptacle for both crimp and PCB contacts

Shell size	Diameter A Max.	Thread B UNEF Class 2A	C Max.	E +0,48 0 (+.019) 0	Diameter F +0,41 0 (+.016) 0	Thread G UNEF Class 2A	H0 -0,2 0 (-.008)	Mass with contacts (average)	
	mm (inch)		mm (inch)	mm (inch)	mm (inch)		mm (inch)	Male g	Female g
11	17,81 (.701)	.8125-20	25,80 (1.016)	31,49 (1.240)	34,93 (1.375)	.5625-24	15,33 (.604)	16	19.5
13	21,62 (.851)	1.000-20	30,00 (1.181)	34,69 (1.366)	38,10 (1.500)	-6875-24	16,92 (.666)	22.5	28
15	24,80 (.976)	1.125-18	33,00 (1.300)	37,79 (1.488)	41,28 (1.625)	8125-20	18,51 (.729)	28	37
17	27,97 (1.101)	1.250-18	37,00 (1.457)	40,99 (1.614)	44,45 (1.750)	9375-20	20,10 (.791)	33	46.5
19	30,69 (1.208)	1.375-18	40,00 (1.575)	45,79 (1.803)	49,23 (1.938)	1.0625-18	22,67 (.893)	41.5	58.5
21	33,86 (1.333)	1.500-18	43,00 (1.693)	48,99 (1.929)	52,37 (2.062)	1.1875-18	24,26 (.955)	50.5	71
23	37,04 (1.458)	1.625-18	46,00 (1.811)	52,09 (2.051)	55,58 (2.188)	1.3125-18	25,84 (1.017)	55.50	82.5
25	40,22 (1.583)	1.750-18	51,20 (2.016)	55,29 (2.177)	58,72 (2.312)	1.4375-18	27,43 (1.080)	63	98



PLUG

With rear accessory possibility

Shell size	Diameter A +0,03 -0,1 (+.001) -.004	Thread B UNEF Class 2A	C Max.	E0 -0,25 0 (-.01)	Diameter F ±0,41 (±.016)	Thread G UNEF Class 2A	H0 -0,25 0 (-.01)	K +0,28 -0,25 (+.011) -.01	Mass with contacts (average)	
	mm (inch)		mm (inch)	mm (inch)	mm (inch)		mm (inch)	mm (inch)	Male g	Female g
11	23,00 (.906)	1.000-20	32,23 (1.264)	32,16 (1.266)	38,10 (1.500)	.5625-24	16,92 (.666)	2,77 (.109)	24	28
13	26,80 (1.055)	1.125-18	35,25 (1.388)	35,34 (1.391)	41,28 (1.625)	.6875-24	18,51 (.729)	2,77 (.109)	28	34
15	30,00 (1.181)	1.250-18	38,40 (1.512)	38,51 (1.516)	44,45 (1.750)	.8125-20	20,10 (.791)	2,77 (.109)	32	41
17	33,22 (1.308)	1.375-18	41,60 (1.638)	41,69 (1.641)	49,23 (1.938)	.9375-20	22,67 (.893)	2,77 (.109)	38	51
19	36,20 (1.425)	1.500-18	46,30 (1.823)	46,43 (1.828)	52,37 (2.062)	1.0625-18	24,26 (.955)	3,56 (.14)	48	65
21	39,40 (1.551)	1.625-18	49,60 (1.953)	49,64 (1.954)	55,58 (2.188)	1.1875-18	25,84 (1.017)	3,56 (.14)	67	87
23	42,60 (1.677)	1.750-18	52,70 (2.075)	52,78 (2.078)	58,72 (2.312)	1.3125-18	27,43 (1.080)	3,56 (.14)	83	111
25	45,68 (1.798)	1.875-16	53,93 (2.213)	54,03 (2.128)	59,10 (2.327)	1.4375-18	27,58 (1.086)	3,56 (.14)	104	125

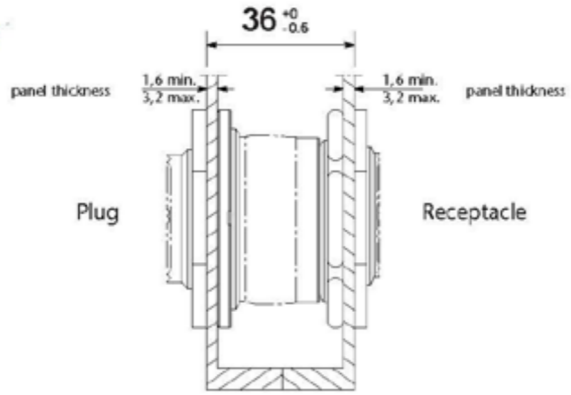
Only RNJ specific dimensions are mentioned in these figures. -All dimensions which are not mentioned meet the MIL-DTL-38999 Series I Standard.

CONNECTOR MOUNTING

Generalities

- **The dimension of 36** $^{+0}_{-0.5}$ between the flanges is mandatory to secure the technical performances at the mating position.
- A guiding system has to ensure the correct positioning of the rack independently of the connectors.
- No mechanical stress must be applied to the rear of the plug by the wires.
- To mount an accessory on the plug, it is necessary to use a holding support to avoid strain on the internal set of the plug.
- A stainless steel pin is delivered with both plug and receptacle connectors. The pin ensures a perfect positionning of the connector on the panel.

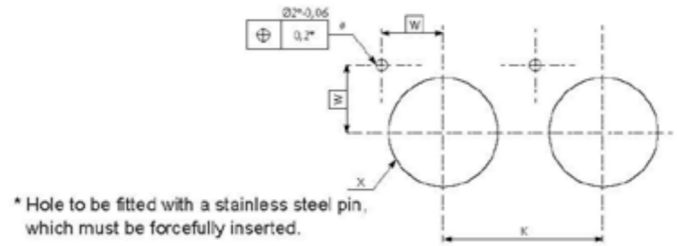
Mated connectors



(Dimensions in mm)

PANEL DRILLING AND RECOMMENDED NUT COUPLING TORQUE

Shell size		K min	W	Diam. X +0.1/-0	Nut coupling torque	Clamping bush for RNJ plug
Plug	Receptacle	mm (in)	mm (in)	mm (in)	N.m	
-	11	-	11.69 (0.460)	20.88 (0.822)	4.5/5.7	-
11	13	32.60 (1.283)	12.81 (0.504)	25.58 (1.007)	6.2/6.8	RNJ 8982 A11
13	15	36.00 (1.417)	13.94 (0.549)	28.80 (1.134)	7.9/8.5	RNJ 8982 B13
15	17	39.60	15.06 (1.559)	31.98 (0.593)	9.0/9.6 (1.259)	RN J8982 C15
17	19	43.30 (1.705)	16.88 (0.665)	35.15 (1.384)	10.2/10.7	RNJ 8982 D17
19	21	47.00 (1.850)	18.00 (0.709)	38.28 (1.507)	11.3/12.4	RNJ 8982 E19
21	23	50.60 (1.992)	19.12 (0.753)	41.50 (1.634)	12.4/13.6	RNJ 8982 F21
23	25	54.20 (2.134)	20.24 (0.797)	44.68 (1.759)	13.6/14.7	RNJ 8982 G23
25	-	59.70 (2.350)	20.30 (0.799)	48.08 (1.893)	15.8/16.9	RNJ 8982 H25



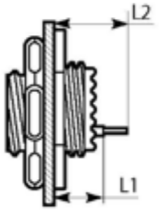
* Hole to be fitted with a stainless steel pin, which must be forcefully inserted.

REAR ACCESSORIES COUPLING TORQUE

The following values must be respected. Before applying this coupling torque, locking glue has to be put on the rear thread of the connector.

Shell size	11	13	15	17	19	21	23	25
Coupling torque (Nm)	8 ± 0.4	11 ± 0.5	11 ± 0.5	14 ± 0.7	14 ± 0.7	17 ± 0.8	17 ± 0.8	20 ± 1

STANDARD PCB TAIL DIMENSIONS FOR RNJ 27 CI RECEPTACLES



			RNJ 27 CI⊠ mm (in)
P	L1	min	7.89 (0.311)
		max	8.57 (0.337)
	L2	min	12.79 (0.504)
		max	13.67 (0.538)
S	L1	min	7.69 (0.303)
		max	8.37 (0.330)
	L2	min	12.59 (0.496)
		max	13.47 (0.530)

(Other dimensions available upon request)

For specific RNJ 46 plugs equipped with PCB contacts (flex circuit applications), please consult us.

New: RNJ receptacles for PCB applications

Now available with stand off with holes for M3 screws for fixation on the board.

HOW TO ORDER

Series	RNJ	26	T	11	35	P	N	014	LC	-

Shell type
26: Plug with accessory possibility
27: Jam nut receptacle
46: Plug without accessory possibility
(For plug and receptacle with square flange, please consult us

Service class and contact type
T: Environmental crimp applications, # 22D/20/16/12/8/4/00
CI: Environmental solder applications on PCB (receptacle only),
22D/20/16 (for sizes 12 and 8, please consult us)
DW: Environmental wire-wrapping applications (receptacle only),
22D/20

Shell size
11/13/15/17/19/21/23/25

Insert arrangement
See pages 4/5

Contact style
P: Pin
S: Socket

Polarization
N: Normal position only (Letter N is required)

Shell finish
014: Olive drab cadmium
023: electroless nickel

Contacts
Blank: Connector delivered with contacts
LC: Connector delivered without contact ("LC" not marked on the connector)

Deviation
F404: Tinned PCB contacts
For other deviations (FXXX), please consult us

CLAMPING BUSH FOR RNJ PLUG

For # 11: RNJ8982A11
For # 13: RNJ8982B13
For # 15: RNJ8982C15
For # 17: RNJ8982D17
For # 19: RNJ8982E19
For # 21: RNJ8982F21
For # 23: RNJ8982G23
For # 25: RNJ8982H25

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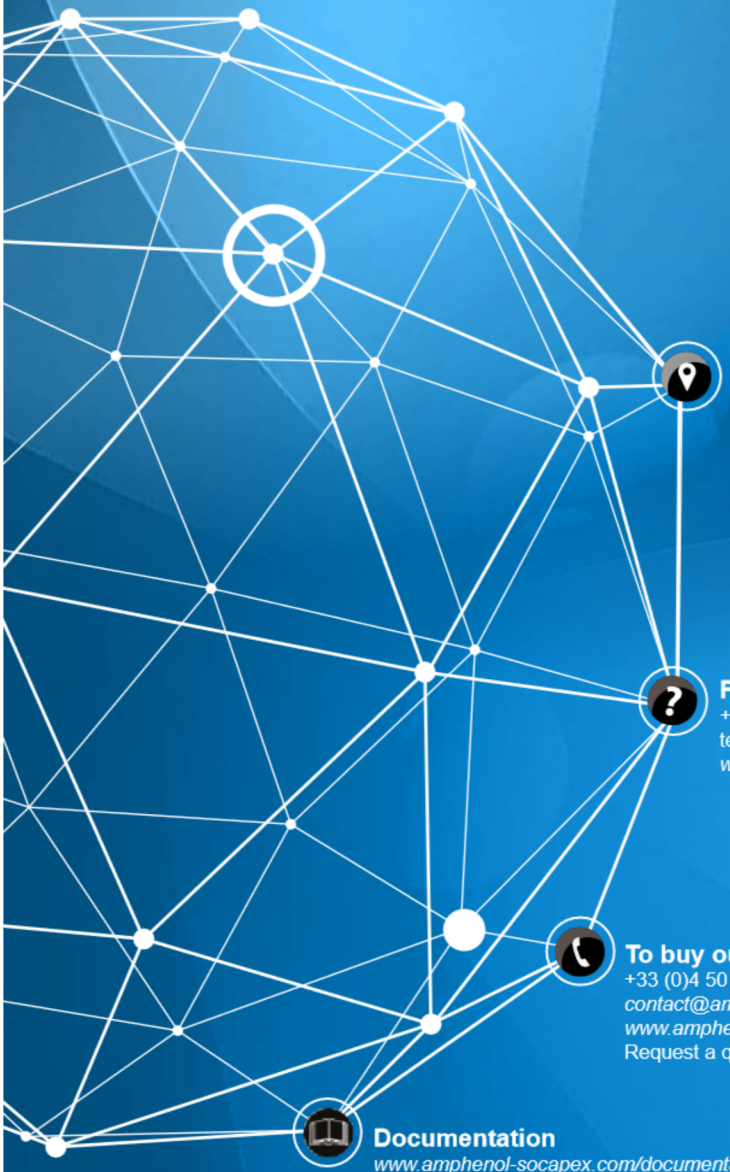

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