

Application

They are used in control and control, telecommunication systems and personal computers

Standarts

KNESK.434410.001 Specification

Design description

- cut in type with screw fixation and without fixation of the mated position
- climatic version UHL

- plating: gold, silver and tin-bismuth
- mounting method: soldering

Characteristics

Mechanical

vibration:

frequency range, Hz - 1...2000
acceleration, m/s^2 - 200 (20g)

single impact:

acceleration, m/s^2 - 1500 (150g)

multiple impacts:

acceleration, m/s^2 - 400 (40g)

linear loads:

acceleration, m/s^2 - 1000 (100g)

Reliability requirements

minimum operating time, h
10000

with mate -unmate operations
500

minimum storage life, years
10

Electrical

operating voltage (amplitude value),
not more than
250 V

operating current across the contact,
not more than
3 A

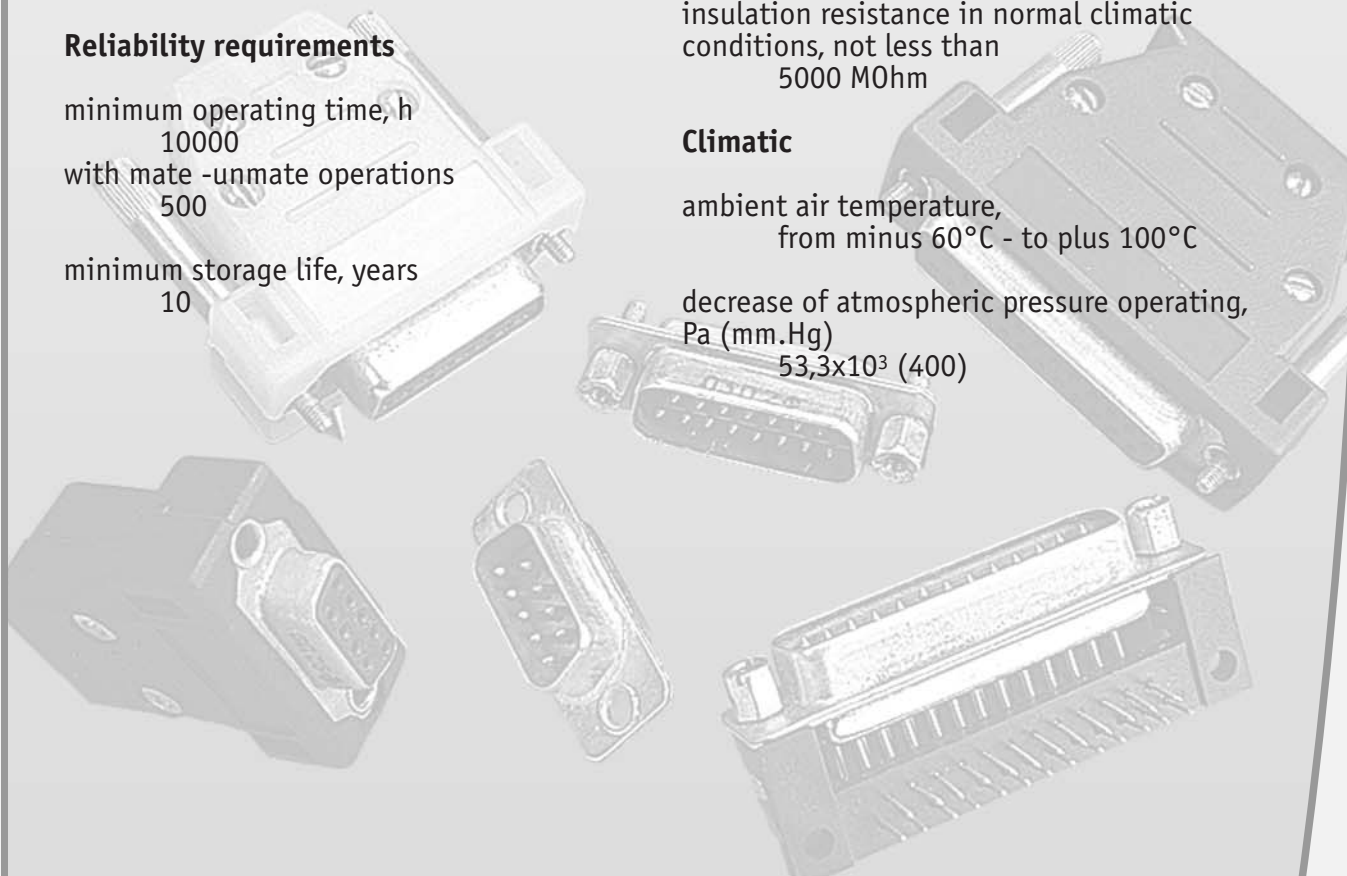
resistance of electric contact, with plating,
not more than
gold, silver - 0,01
tin-bismuth - 0,02

insulation resistance in normal climatic
conditions, not less than
5000 MOhm

Climatic

ambient air temperature,
from minus 60°C - to plus 100°C

decrease of atmospheric pressure operating,
Pa (mm.Hg)
 $53,3 \times 10^3$ (400)



Designation							
	UA SNP101-	9	V	P	1	3	-1
Connector type							
Number of contacts: 9 (15, 25, 37)							
Connector portion: V - plug (male connector) R - socket (female connector)							
Mounting method: P - soldering							
Type of wiring tail: 1 - for three dimensional wiring 2 - for mounting into the printed board holes, straight version 3 - for mounting into the printed board holes, andled version							
Plating of the contacts working portion: 1 - gold 2 - silver 3 - tin-bismuth							
Number of the parts included, fastening and fixing parts: 1 - connector, equipped by special screws with thread ; 2 - connector with standard screws ; 3 - connector with special thread as specified in standard 4-40UNC; 4 - connector with backshell ; 5 - connector with backshell, equipped with special screws with metric thread; 6 - connector with backshell, equipped with special screws as specified in standard 4-40UNC							

Designation while placing the order:

Plug UA SNP101-25VP11-5 KNESK.434410.001 Specification
 Socket UA SNP101-9RP31-2 KNESK.434410.001 Specification

Design and dimensions of connectors SNP101 are given in figures 1-6 and tables 1-6

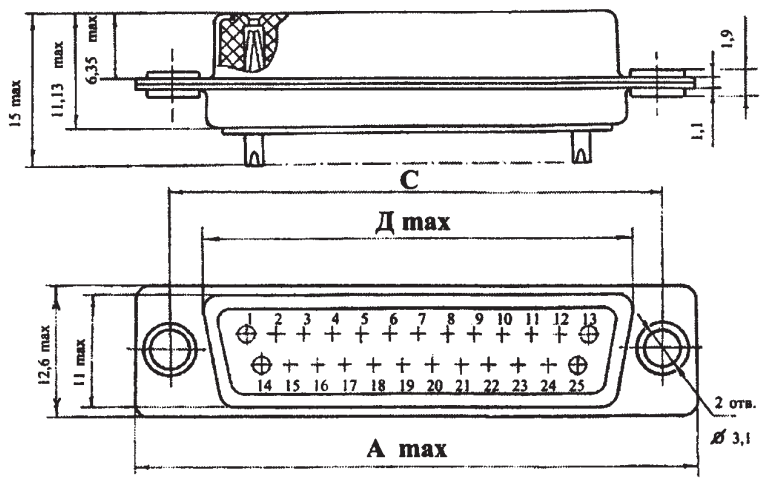


Figure 1 - Plug (socket) of three dimensions wiring

Table 1

Conventional designation	Number of contacts	Dimensions, mm		
		A	C	Д
SNP101-9VP11(2,3)	9	30,9	25,0	19,51
SNP101-9RP11(2,3)	9	30,9	25,0	19,51
SNP101-15VP11(2,3)	15	39,2	33,3	27,71
SNP101-15RP11(2,3)	15	39,2	33,3	27,71
SNP101-25VP11(2,3)	25	53,1	47,0	41,55
SNP101-25RP11(2,3)	25	53,1	47,0	41,55
SNP101-37VP11(2,3)	37	69,4	63,5	58,0
SNP101-37RP11(2,3)	37	69,4	63,5	58,0

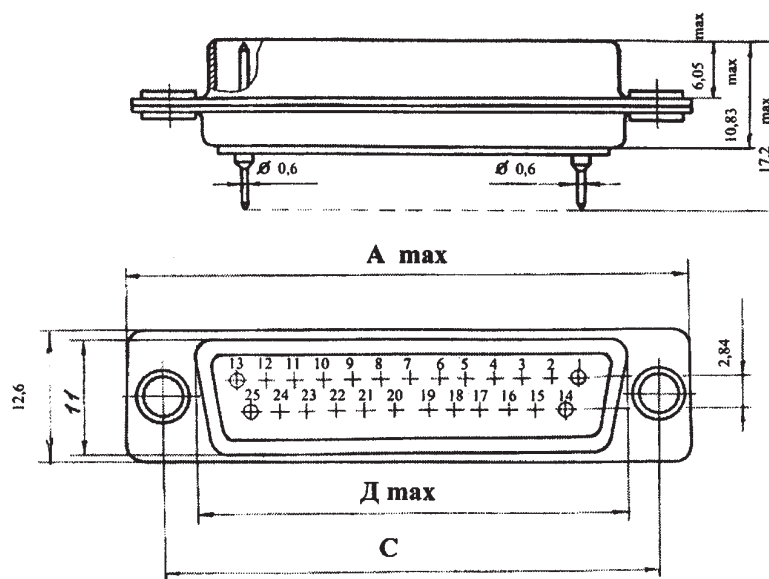


Figure 2 - Plug (socket) of printed wiring

Table 2

Conventional designation	Number of contacts	Dimensions, mm		
		A	C	Д
SNP101-9VP21(2,3)	9	30,9	25,0	19,51
SNP101-9RP21(2,3)	9	30,9	25,0	19,51
SNP101-15VP21(2,3)	15	39,2	33,3	27,71
SNP101-15RP21(2,3)	15	39,2	33,3	27,71
SNP101-25VP21(2,3)	25	53,1	47,0	41,55
SNP101-25RP21(2,3)	25	53,1	47,0	41,55
SNP101-37VP21(2,3)	37	69,4	63,5	58,0
SNP101-37RP21(2,3)	37	69,4	63,5	58,0

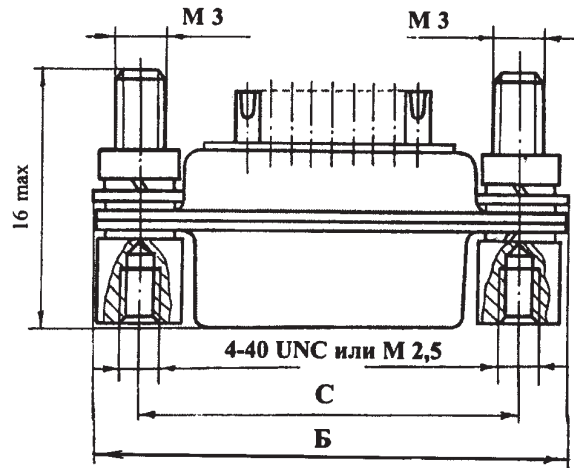


Figure 3 - Plug (socket) of three dimensions wiring with special screws

Table 3

Conventional designation	Dimensions, mm	
	C	B
SNP101-9VP11(2,3)-1(3)	25,0	32,6
SNP101-9RP11(2,3)-1(3)	25,0	32,6
SNP101-15VP11(2,3)-1(3)	33,3	40,9
SNP101-15RP11(2,3)-1(3)	33,3	40,9
SNP101-25VP11(2,3)-1(3)	47,0	54,6
SNP101-25RP11(2,3)-1(3)	47,0	54,6
SNP101-37VP11(2,3)-1(3)	63,5	71,1
SNP101-37RP11(2,3)-1(3)	63,5	71,1

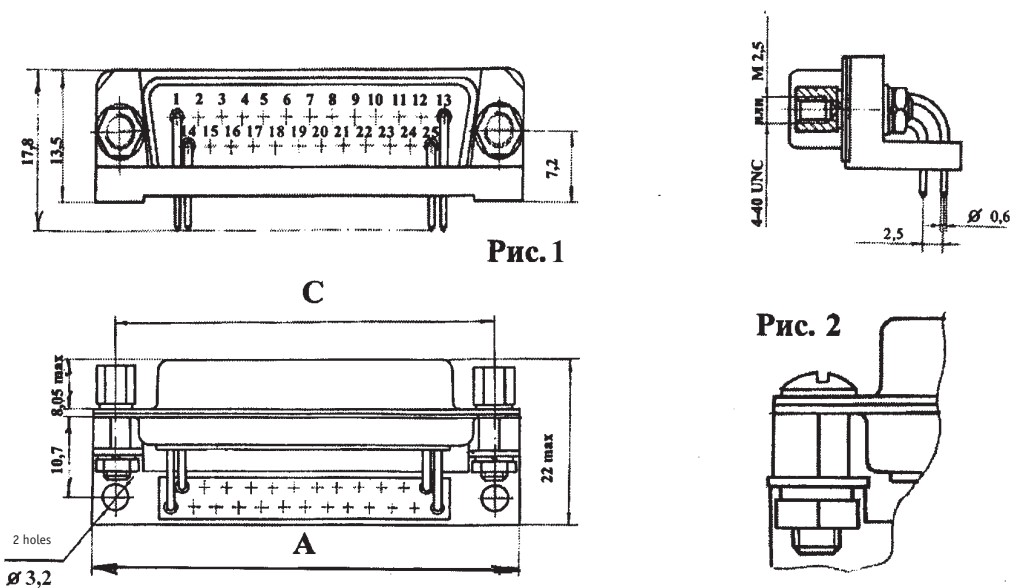


Figure 4 - Angled plug (socket) for printed wiring

Table 4

Conventional designation	Dimensions, mm	
	A	C
SNP101-9VP11(2,3)-1(2,3)	30,9	25,0
SNP101-9RP11(2,3)-1(2,3)	30,9	25,0
SNP101-15VP11(2,3)-1(2,3)	39,2	33,3
SNP101-15RP11(2,3)-1(2,3)	39,2	33,3
SNP101-25VP11(2,3)-1(2,3)	53,1	47,0
SNP101-25RP11(2,3)-1(2,3)	53,1	47,0
SNP101-37VP11(2,3)-1(2,3)	69,4	63,5
SNP101-37RP11(2,3)-1(2,3)	69,4	63,5

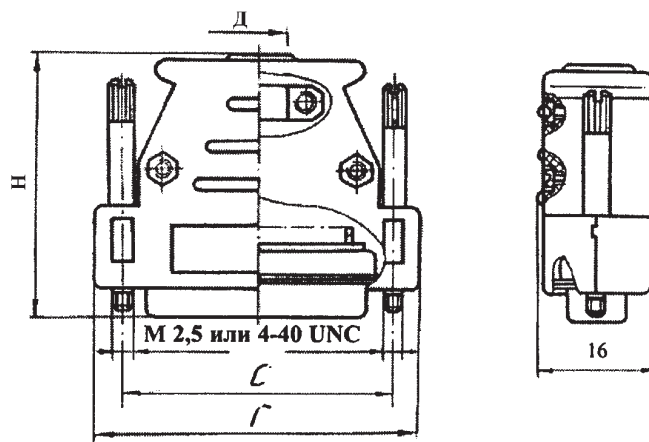


Figure 5 - Plug (socket) with backshell

Table 5

Conventional designation	Dimensions, mm			
	G	S	N	D
SNP101-9VP11(2,3)-4	35,0	25,0	40,5	6
SNP101-9RP11(2,3)-4	35,0	25,0		
SNP101-9VP11(2,3)-5(6)	35,0	25,0		
SNP101-9RP11(2,3)-5(6)	35,0	25,0		
SNP101-15VP11(2,3)-4	42,0	33,3	42,8	8
SNP101-15RP11(2,3)-4	42,0	33,3		
SNP101-15VP11(2,3)-5(6)	42,0	33,3		
SNP101-15RP11(2,3)-5(6)	42,0	33,3		
SNP101-25VP11(2,3)-4	56,0	47,0	47,0	10
SNP101-25RP11(2,3)-4	56,0	47,0		
SNP101-25VP11(2,3)-5(6)	56,0	47,0		
SNP101-25RP11(2,3)-5(6)	56,0	47,0		
SNP101-37VP11(2,3)-4	72,2	63,5	47,0	12
SNP101-37RP11(2,3)-4	72,2	63,5		
SNP101-37VP11(2,3)-5(6)	72,2	63,5		
SNP101-37RP11(2,3)-5(6)	72,2	63,5		

Operating instruction

Operating instructions as specified in GOST 23784 and RD 110477.

Printed wiring connectors may be used for mass soldering on the printed board.

Maximum cross section area of wires connected to contacts wiring tails should not exceed 0,5 mm².

While checking accuracy of connector parts wiring it is forbidden to connect end portions of tools (probes) to the working portions of contacts. It is necessary to use connector counterpart (of the plug or socket respectively) and check by connection to the wiring tails of connector counterpart.

Wiring and assembly of shielded connector is performed as specified in the documents, prepared at each enterprise taking account of recommendations and requirements, given below.