

Type of connectors RBN1, RBN1B



Application

They are used in radio electronic and radio engineering equipment as connectors of the general type.

Standarts

OST V 110121-91
GEO.364.151 Specification

Design description

- bayonet mating
- climatic version V
- RBN1 - water proof (depth of immersion in water 2m)

RBN1B - drip-proof
- contacts plating:silver
- mounting method: soldering

Characteristics

Mechanical

vibration:
frequency range, Hz - 1...1000
acceleration, m/s^2 - 98,1 (10g)

single impacts:
acceleration, m/s^2 - 4905 (500g)

multiple impacts:
acceleration, m/s^2 - 1471 (150g)

linear loads:
acceleration, m/s^2 - 490 (50g)

Reliability requirements

minimum operating time, h
5000
with mate-unmate operations
1000

minimum storage life, years
15

Electric

maximum operating voltage, not more than
700 V

operating current across the contact, not more than, A

$\varnothing 1,5$ - 3,5...3,9
 $\varnothing 2,5$ - 8...10
 $\varnothing 3,5$ - 22,5...25
 $\varnothing 5,5$ - 50
 $\varnothing 9,0$ - 100

resistance of electric contact, not more than, MOhm

$\varnothing 1,5$ - 7
 $\varnothing 2,5$ - 4
 $\varnothing 3,5$ - 2
 $\varnothing 5,5$ - 1
 $\varnothing 9,0$ - 0,75

insulation resistance in normal climatic conditions, not less than
50000 MOhm

Climatic

ambient air temperature, °C
RBN1 - from minus 60 - to plus 70
RBN1B - from minus 60 - to plus 100
change of temperature, °C

RBN1 - from minus 60 - to plus 85
RBN1B - from minus 60 - to plus 115
(taking into account the temperature of contacts overheat)






atmospheric pressure decrease, operating Pa (mm.Hg)
53600 (400)

Designation						
	RBN1 (RBN1B)	-3	-5	SH	4	-V
Type						
RBN1 - water proof version						
RBN1B - drip proof version						
Number of contacts						
Contacts combination:						
2 - the contacts with diameter 1.5 mm						
5 - the contacts with diameter 5,5 mm						
17 - the contacts with diameter 3.5; 5.5; 9.0 mm						
18 - the contacts with diameter 2.5 mm						
19 - the contacts with diameter 3.5 mm						
26 - the contacts with diameter 3.5; 5.5 mm						
Type of contacts:						
SH - plug (male connector)						
G - socket (female connector)						
Design version						
1 - fixed connector plug (socket)						
2 - cable plug (socket) in angled housing for connection with fixed connector socket (plug)						
3 - cable plug (socket) for "cable - cable" connection						
4 - cable plug (socket) in straight housing for connection with fixed connector socket (plug)						
Universal climatic version						

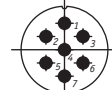
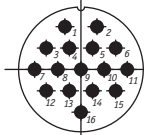
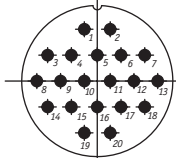
Designation while placing the order:

Plug RBN1-7-18SH1-V GE0.364.151 Specification
 Socket RBN1B-45-2G2-V GE0.364.151 Specification

Conventional designation of the contacts

Contact diameter, mm	1,5	2,5	3,5	5,5	9,0
Conventional designation of the contact					

Contacts location diagrams

Housing conventional dimension	Contacts location diagrams	Number of the contacts combination diagrams	Contact diameter, mm	Number of contacts , pcs
30		18	2,5	7
42		18	2,5	16
52		18	2,5	20

52		18	2,5	26
64		2	1,5	45
64		17	3,5	2
			5,5	1
			9,0	3

Design and dimensions of connectors RBN1 (RBN1B) are shown in figures 1-4 and tables 1-4

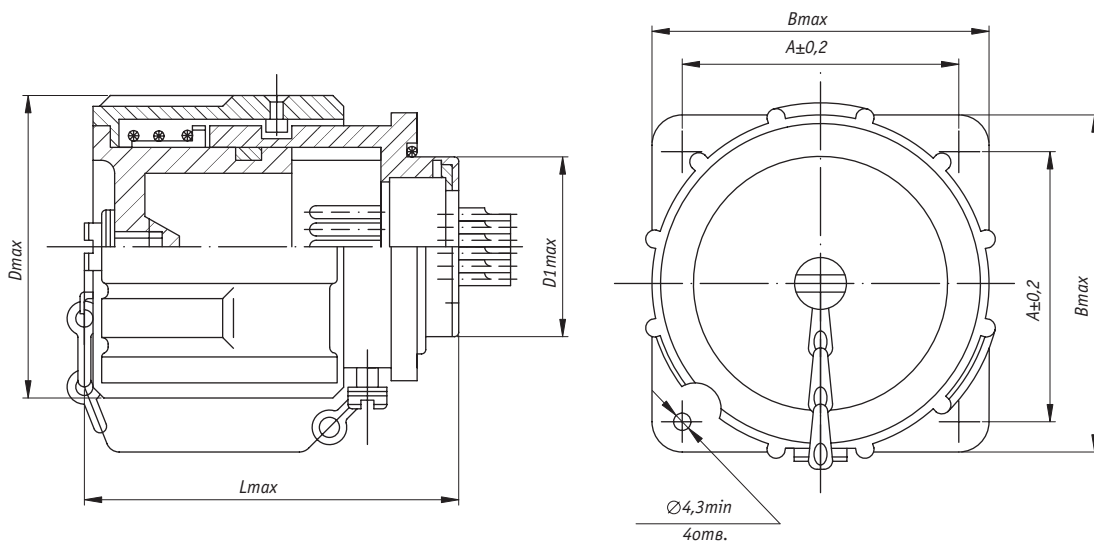


Figure 1 - Plug (socket) of fixed connector

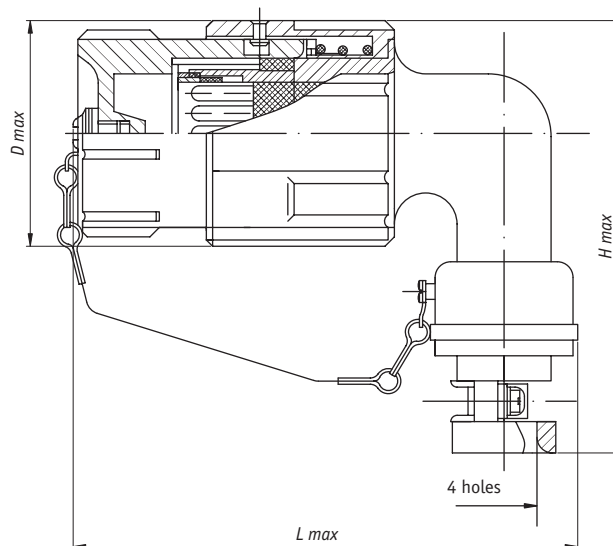


Figure 2 - Plug (socket) in angled housing

Table 1

Conventional designation design type	Dimensions, mm					Weight, g, not more than
	D	D ₁	L	A	B	
RBN1-7-18SH1-V RBN1B-7-18SH1-V RBN1-7-18G1-V RBN1B-7-18G1-V	51,2	30,2	76	35	45,2	220 253
RBN1-16-18SH1-V RBN1B-16-18SH1-V RBN1-16-18G1-V RBN1B-16-18G1-V	65,2	42,2	76	50	60,2	360 407
RBN1-20-18SH1-V RBN1B-20-18SH1-V RBN1-20-18G1-V RBN1B-20-18G1-V	75,2	52,2	76	60	70,2	452 396
RBN1-26-18SH1-V RBN1B-26-18SH1-V RBN1-26-18G1-V RBN1B-26-18G1-V	75,2	52,2	76	60	70,2	466 550
RBN1-45-2SH1-V RBN1B-45-2SH1-V RBN1-45-2G1-V RBN1B-45-2G1-V	85,2	64,2	76	70	80,2	568 620
RBN1-6-17SH1-V RBN1B-6-17SH1-V RBN1-6-17G1-V RBN1B-6-17G1-V	85,2	64,2	78	70	80,2	607 671

Table 2

Conventional designation design type	Dimensions, mm				Weight, g, not more than
	D	d	H	L	
RBN1-7-18SH2-V RBN1B-7-18SH2-V RBN1-7-18G2-V RBN1B-7-18G2-V	51,2	13,8	84,5	122	325 328
RBN1-16-18SH2-V RBN1B-16-18SH2-V RBN1-16-18G2-V RBN1B-16-18G2-V	65,2	25,8	131,2	135	526 530
RBN1-20-18SH2-V RBN1B-20-18SH2-V RBN1-20-18G2-V RBN1B-20-18G2-V	75,2	31,8	153,3	144	630 651
RBN1-26-18SH2-V RBN1B-26-18SH2-V RBN1-26-18G2-V RBN1B-26-18G2-V	75,2	31,8	153,3	144	640 702
RBN1-45-2SH2-V RBN1B-45-2SH2-V RBN1-45-2G2-V RBN1B-45-2G2-V	85,2	43,8	178,3	154	799 872
RBN1-6-17SH2-V RBN1B-6-17SH2-V RBN1-6-17G2-V RBN1B-6-17G2-V	85,2	43,8	178,3	154	852 924

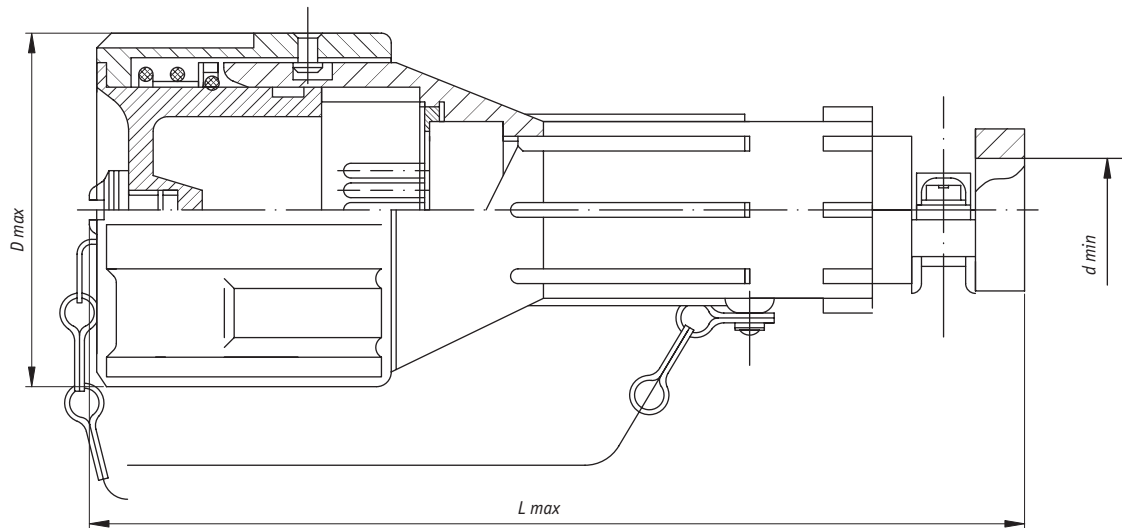


Figure 3 - Cable plug (socket) for "cable-cable" connector

Table 3

Conventional designation design type	Dimensions, mm			Weight, g, not more than
	D	d	L	
RBN1-7-18SH3-V RBN1B-7-18SH3-V RBN1-7-18G3-V RBN1B-7-18G3-V	51,2	13,8	148	243 276
RBN1-16-18SH3-V RBN1B-16-18SH3-V RBN1-16-18G3-V RBN1B-16-18G3-V	65,2	25,8	158	440 461
RBN1-20-18SH3-V RBN1B-20-18SH3-V RBN1-20-18G3-V RBN1B-20-18G3-V	75,2	31,8	165	565 586
RBN1-26-18SH3-V RBN1B-26-18SH3-V RBN1-26-18G3-V RBN1B-26-18G3-V	75,2	31,8	165	566 630
RBN1-45-2SH3-V RBN1B-45-2SH3-V RBN1-45-2G3-V RBN1B-45-2G3-V	85,2	43,8	170	705 778
RBN1-6-17SH3-V RBN1B-6-17SH3-V RBN1-6-17G3-V RBN1B-6-17G3-V	85,2	43,8	170	730 800

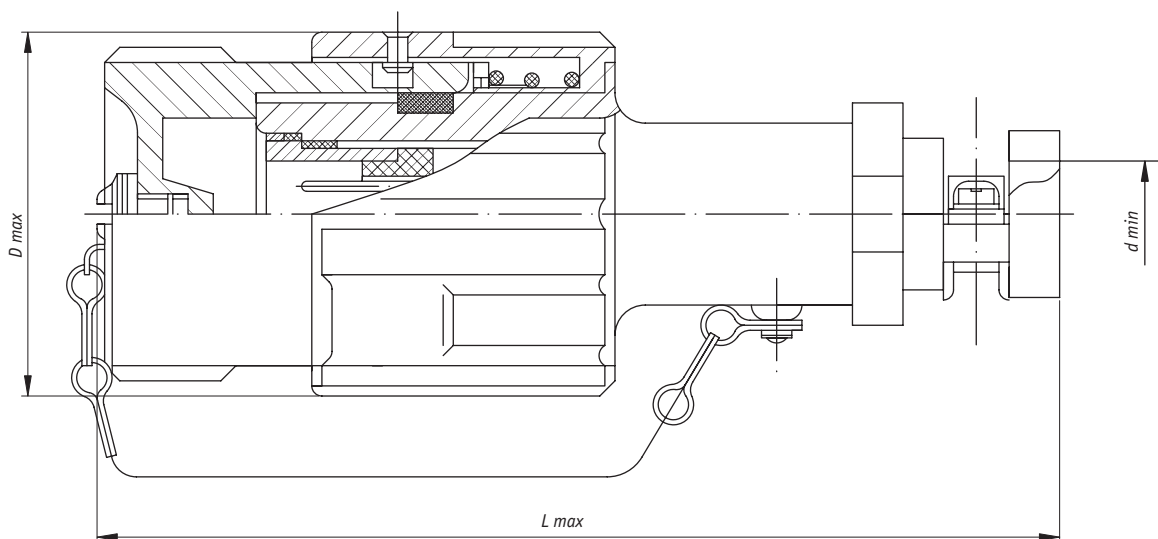


Figure 4 - Cable plug (socket) in straight housing

Table 4

Conventional designation design type	Dimensions, mm			Weight, g, not more than
	D	d	L	
RBN1-7-18SH4-V RBN1B-7-18SH4-V RBNH1-7-18G4-V RBN1B-7-18G4-V	51,2	13,8	137,2	332 318
RBN1-16-18SH4-V RBN1B-16-18SH4-V RBN1-16-18G4-V RBN1B-16-18G4-V	65,2	25,8	147,2	528 521
RBN1-20-18SH4-V RBN1B-20-18SH4-V RBN1-20-18G4-V RBN1B-20-18G4-V	75,2	31,8	154,2	620 683
RBN1-26-18SH4-V RBN1B-26-18SH4-V RBN1-26-18G4-V RBN1B-26-18G4-V	75,2	31,8	154,2	660 684
RBN1-45-2SH4-V RBN1B-45-2SH4-V RBN1-45-2G4-V RBN1B-45-2G4-V	85,2	43,8	159,2	752 880
RBN1-6-17SH4-V RBN1B-6-17SH4-V RBN1-6-17G4-V RBN1B-6-17G4-V	85,2	43,8	159,2	804 882