

Hitech India Private Limited

2PM / WP SERIES

RUSSIAN CONNECTOR S



Introduction

The 2PM/WP series Connectors have metric threads for coupling and have inserts made of either Neoprene Rubber or Hard Phenolic. Both the versions meet the requirements of Indian Joint Service Specification JSS:5935-10:2006* (Superceding JSS 50860) and are approved for Defence use. These connectors find application in Military Communication, Armoured and Tracked vehicles and various other Defence sectors.

	Page
Introduction	2
WP Series (SHR Series) *	3-13
2PTT Series (2RTT Series)	14-24
2PM & 2PMД Series (2RM & 2RMD Series) *	25-34
PC Series (RS Series) *	35-38
PPC3, 4 & 5 Series (RRS3, 4 & 5 Series)	39-43
MP1 Series (MR1 Series)	44-47
ОНЦ - БС1 Series (ОНТС-БС1 Series)	48-50
ОНЦ13,14 Series (ОНТС13, 14 Series)	51-54
ОНЦ23 Series (ОНТС23 Series)	55-66
ОНЦ127 Series (ОНТС127 Series)	67-70
Cross Reference List	71

Series WP (SHR Series)

WP Series (SHR SERIES)

The receptacle and the plug parts are drawn together by means of threads provided on the receptacle and plug coupling nut.

The group of connectors are classified on the basis of common unitized shells available in ten sizes.

Constructionally each type of connector has specific application feature specified for the given types by the operating condition.

WP (SHR)	=	Unsealed Connector
WPT (SHRG)	=	Sealed Receptacle Connector
CWP(SSHR)	=	Special Unsealed Connector

Technical Data

A) Operating voltage (max. at sea level) 500 V (rms)

B) Operating current and contact resistance refer table given below

Contact size mm	Rated Current-A	Contact Resistance m Ohms (Max)
1.5	14	2.50
2.5	25	1.00
3.5	40	0.75
5.5	80	0.30
9.0	200	0.15

C) Operating Temperature : -55° c to +125° c

D) Material

1. Insulator	: Hard Dielectric / Neoprene Rubber
2. Socket contact 1.5, & 2.5	: Brass Alloy
3. Socket contact 3.5, 5.5 & 9	: Phosphor Bronze
4. Pin contact	: Brass Alloy
5. Contact clip	: Beryllium Copper
6. Shell	: Aluminium Alloy

E) Finish

a. Contact	: Silver Plated
b. Shell	: Cadmium Plated with Olive drab

F) Insulation resistance : 5000 M Ohms (Min)

G) Voltage proof (At sea level) : 2000V AC (rms)

Series WP (SHR Series)

SHR - SERIES (WP Series)



Plug with Straight Split Hood



Plug with Angled Split Hood



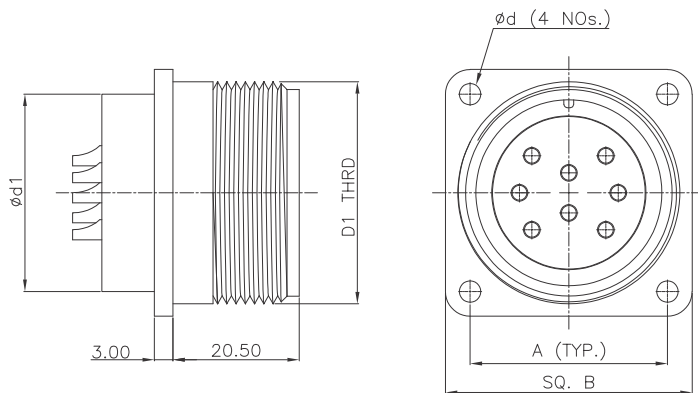
Receptacle with Straight Hood

Connector Designation & Ordering Information

RUSSIAN --> <u>ШР</u>	<u>Г</u>	<u>20</u>	<u>П,У,ПК,СК</u>	<u>5</u>	<u>Э</u>	<u>Г(Ш)</u>	<u>10</u>	
ENGLISH --> <u>SHR</u>	<u>G</u>	<u>20</u>	<u>P,U,PK,SK</u>	<u>5</u>	<u>E</u>	<u>G(SH)</u>	<u>10</u>	<u>HD</u>
For Sealed Connector applicable for Receptacle Connector only Shell Size: (12,16,20,28,32,36,40,48,55,60) P-With Split hood for Plug connector P-Will not have any designation incase of Receptacle connector U-With Angle hood for plug connector PK-With Straight hood for Receptacle connector SK-With Angle hood for Receptacle connector Number of contacts (Terminals) E- Screen Clamp (Not applicable for receptacle connector without accessories) N- Cable Clamp (SH)- for Pin Contact in Receptacle, Socket contact incase of Plug connector G-for Socket contact in Receptacle, Pin contact incase of Plug connector Arbitrary Number of contact set Connector with Hard Phenolic Insert (Connector with Neoprene Rubber connector if HD letter in marking is absent)								

Receptacle

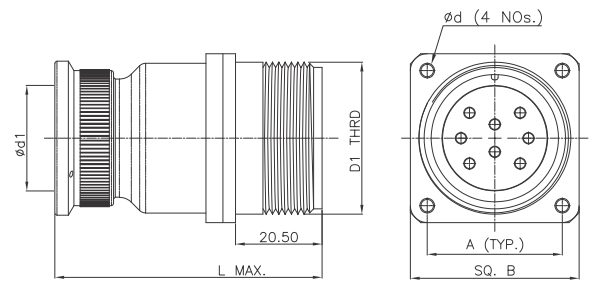
RECEPTACLE ASSEMBLY WITHOUT ACCESSORIES



Receptacle Pin Assembly
Without Accessories



RECEPTACLE ASSEMBLY WITH STRAIGHT HOOD & SCREEN CLAMP



Receptacle Pin With Straight
Hood & Screen Clamp



SHELL SIZE	A	B	D1 THRD	ød1	ød
12	16	22	M16x1.5	12	3.5
16	19	25	M20X1.5	16	3.5
20	22	30	M24X1.5	20	3.5
28	30	38	M33X1.5	28	3.5
32	32	40	M36X1.5	32	3.5
36	34	42	M39X1.5	36	3.5
40	40	48	M45X1.5	40	3.5
48	48	58	M52X1.5	48	4.5
55	52	64	M60X1.5	55	4.5
60	54	68	M64X1.5	60	4.5

Receptacle Socket Assembly
Without Accessories



SHELL SIZE	A	B	D1 THRD	ød1 (min. cable entry)	ød	L MAX.
12	16	22	M16x1.5	8	M3	51
16	19	25	M20X1.5	11	M3	55
20	22	30	M24X1.5	18	M3	54
28	30	38	M33X1.5	25	M3	59
32	32	40	M36X1.5	25	M3	63
36	34	42	M39X1.5	29	M3	65
40	40	48	M45X1.5	32	M3	65
48	48	58	M52X1.5	36	M4	87
55	52	64	M60X1.5	46	M4	87
60	54	68	M64X1.5	50	M4	85

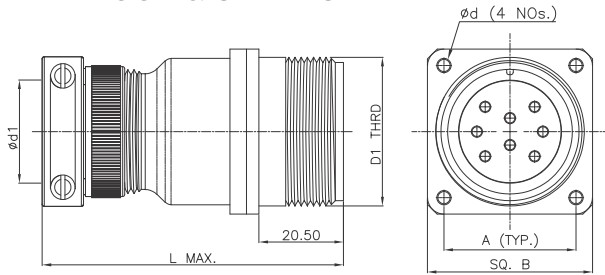
Receptacle Socket With Straight
Hood & Screen Clamp



ALL DIMENSIONS ARE IN MM

Receptacle

RECEPTACLE WITH STRAIGHT HOOD & CABLE CLAMP

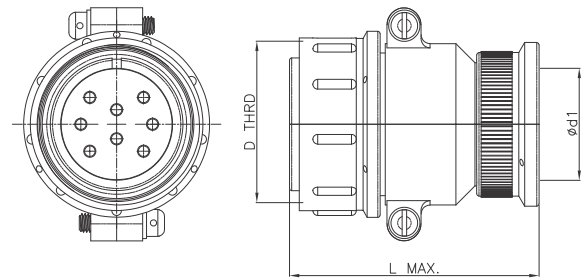


Receptacle Pin With Straight Hood & Cable Clamp



SHELL SIZE	A	B	D1 THRD	ød1 (min. cable entry)	ød	L MAX.
12	16	22	M16x1.5	5	M3	63
16	19	25	M20X1.5	7	M3	65
20	22	30	M24X1.5	14	M3	70
28	30	38	M33X1.5	21	M3	77
32	32	40	M36X1.5	21	M3	81
36	34	42	M39X1.5	23	M3	83
40	40	48	M45X1.5	24	M3	83
48	48	58	M52X1.5	32	M4	85
55	52	64	M60X1.5	40	M4	85
60	54	68	M64X1.5	48	M4	83

PLUG WITH STRAIGHT SPLIT HOOD & SCREEN CLAMP



Plug Pin With Straight Split Hood & Screen Clamp



SHELL SIZE	D THRD	ød1 (min. cable entry)	L MAX.
12	M16x1.5	8	50
16	M20X1.5	11	50
20	M24X1.5	18	53
28	M33X1.5	25	56
32	M36X1.5	25	58
36	M39X1.5	29	62
40	M45X1.5	32	64
48	M52X1.5	36	66
55	M60X1.5	46	66
60	M64X1.5	50	64

Receptacle Socket With Straight Hood & Cable Clamp



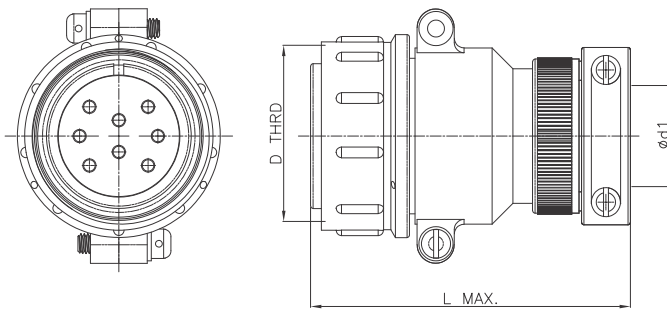
Plug Socket With Straight Split Hood & Screen Clamp



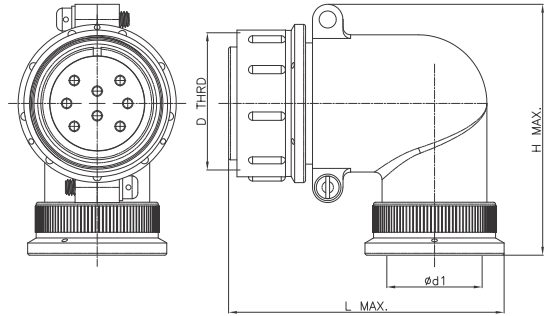
ALL DIMENSIONS ARE IN MM

Plug

PLUG WITH STRAIGHT SPLIT HOODS & CABLE CLAMP



PLUG WITH ANGULAR SPLIT HOODS & SCREEN CLAMP



Plug Pin With Straight Split Hoods & Cable Clamp



Plug Pin With Angular Split Hoods & Screen Clamp



SHELL SIZE	D1 THRD	ød1 (min. cable entry)	L MAX.
12	M16x1.5	5	62
16	M20x1.5	7	60
20	M24x1.5	14	64
28	M33x1.5	21	70
32	M36x1.5	21	72
36	M39x1.5	23	76
40	M45x1.5	24	78
48	M52x1.5	32	80
55	M60x1.5	40	80
60	M64x1.5	48	78

SHELL SIZE	D1 THRD	ød1 (min. cable entry)	H MAX.	L MAX.
12	M16x1.5	8	39	51
16	M20x1.5	11	36	56
20	M24x1.5	18	45	64
28	M33x1.5	25	62	73
32	M36x1.5	25	66	73
36	M39x1.5	29	67	76
40	M45x1.5	32	72	80
48	M52x1.5	36	81	90
55	M60x1.5	46	106	98
60	M64x1.5	50	94	103

Plug Socket With Straight Split Hoods & Cable Clamp



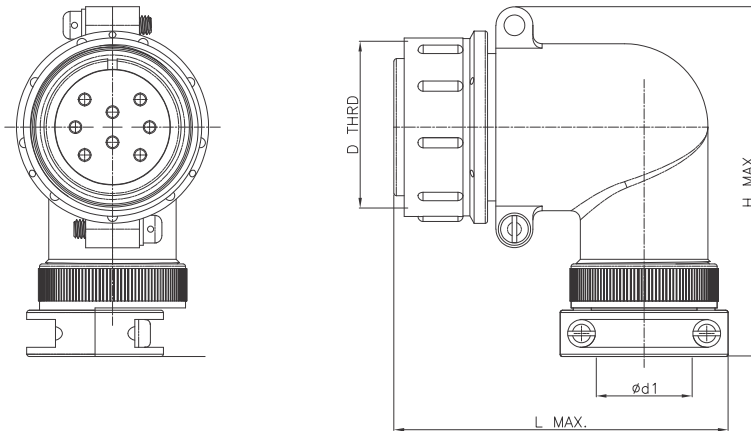
Plug Socket With Angular Split Hoods & Screen Clamp



ALL DIMENSIONS ARE IN MM

Plug

PLUG WITH ANGULAR SPLIT HOODS & CABLE CLAMP



SHELL SIZE	D1 THRD	ød1 (min. cable entry)	H MAX.	L MAX.
12	M16x1.5	5	51.5	53.5
16	M20x1.5	7	53.5	60
20	M24x1.5	14	63	68
28	M33x1.5	21	78	76.5
32	M36x1.5	21	82	76.5
36	M39x1.5	23	83.5	79
40	M45x1.5	24	88	84.5
48	M52x1.5	32	97	95.5
55	M60x1.5	40	104	102
60	M64x1.5	48	110	108

Plug Pin With Angular Split Hoods
& Cable Clamp



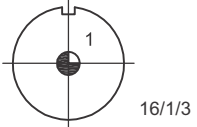
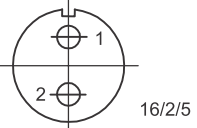
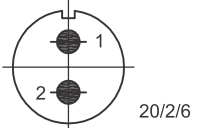
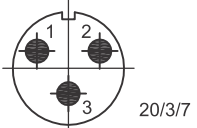
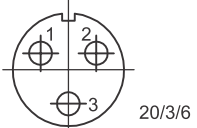
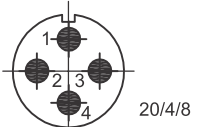
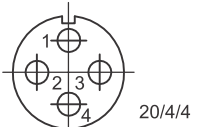
Plug Socket With Angular Split Hoods
& Cable Clamp



ALL DIMENSIONS ARE IN MM

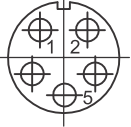
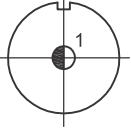
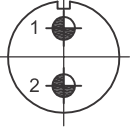
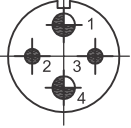
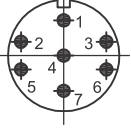
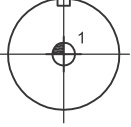
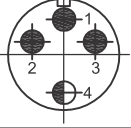
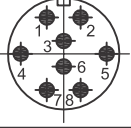
Insert Arrangements

VIEW FOR SOCKET FROM THE MATING SIDE

Conventional shell size	Contact layout	Conventional connector designation	Contact diameter, mm	Number of contacts		Arbitrary Number of Contact Set	Max. current carrying capacity, A	
				in connector	of each diameter		per single contact	total per connector
12			2.5	1	1	2	25	25
16			3.5	1	1	3	50	50
			1.5	2	2	5	10	20
20			2.5	2	2	6	25	50
			2.5	3	3	7	25	75
			1.5	3	3	6	10	30
			2.5	4	4	8	25	100
			1.5	4	4	4	10	40
			2.5	5	5	10	25	125

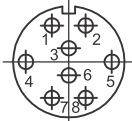
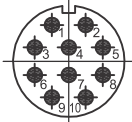
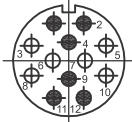
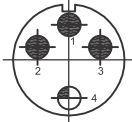
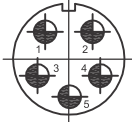
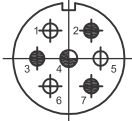
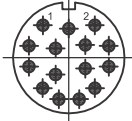
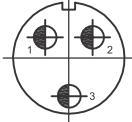
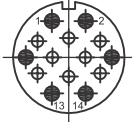
Insert Arrangements

VIEW FOR SOCKET FROM THE MATING SIDE

Conventional shell size	Contact layout	Conventional connector designation	Contact diameter, mm	Number of contacts		Arbitrary Number of Contact Set	Max. current carrying capacity, A	
				in connector	of each diameter		per single contact	total per connector
20	 20/5/7		1.5	5	5	7	10	50
28	 28/1/4		5.5	1	1	4	100	100
	 28/2/7		3.5	2	2	7	50	100
	 28/4/5		2.5	4	2	5	25	150
			3.5		2		50	
	 28/7/9		2.5	7	7	9	25	175
	 28/7/7		1.5	7	7		10	70
32	 32/1/5		9	1	1	5	200	200
	 32/4/14		5.5	4	1	14	100	175
			2.5		3		25	
	 32/8/3		2.5	8	8	3	25	200

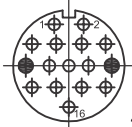
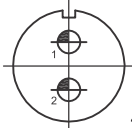
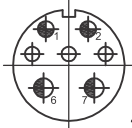
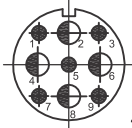
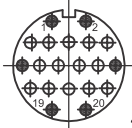
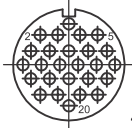
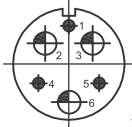
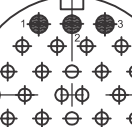
Insert Arrangements

VIEW FOR SOCKET FROM THE MATING SIDE

Conventional shell size	Contact layout	Conventional connector designation	Contact diameter, mm	Number of contacts		Arbitrary Number of Contact Set	Max. current carrying capacity, A	
				in connector	of each diameter		per single contact	total per connector
32	 32/8/2		1.5	8	8	2	10	80
	 32/10/1		1.5	10	6	1	10	160
			2.5		4		25	
	 32/10/4		2.5	10	10	4	25	250
	 32/12/1		1.5	12	6	1	10	210
			2.5		6		25	
36	 36/4/13		2.5	4	3	13	25	275
			9		1		200	
	 36/5/11		3.5	5	5	11	50	250
	 36/7/1		1.5	7	3	1	10	155
			2.5		3		25	
			3.5		1		50	
	 36/15/5		2.5	15	15	5	25	375
40	 40/3/9		5.5	3	3	9	100	300
	 40/14/2		1.5	14	8	2	10	230
			2.5		6		25	

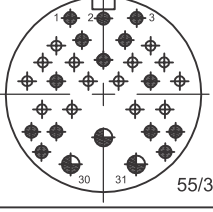
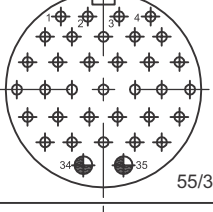
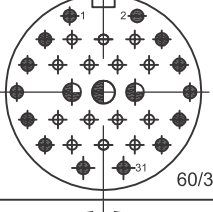
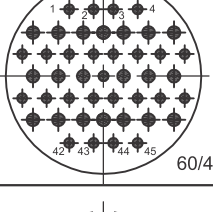
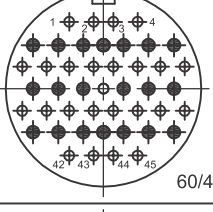
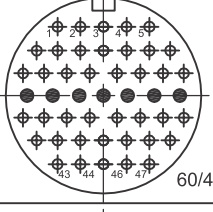
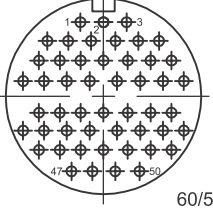
Insert Arrangements

VIEW FOR SOCKET FROM THE MATING SIDE

Conventional shell size	Contact layout	Conventional connector designation	Contact diameter, mm	Number of contacts		Arbitrary Number of Contact Set	Max. current carrying capacity, A	
				in connector	of each diameter		per single contact	total per connector
40	 40/16/2		1.5	16	14	2	10	190
			2.5		2		25	
48	 48/2/9		9	2	2	9	200	400
	 48/7/2		1.5	7	3	2	10	330
			3.5		2		50	
			5.5		2		100	
	 48/9/7		2.5	9	5	7	25	525
			5.5		4		100	
	 48/20/1		1.5	20	14	1	10	290
			2.5		6		25	
	 48/26/2		1.5	26	26	2	10	260
55	 55/6/6		2.5	6	3	6	25	675
			9		3		200	
	 55/23/1		1.5	23	16	1	10	560
			2.5		2		25	
			3.5		3		50	
			5.5		2		100	
	 55/30/1		1.5	30	22	1	10	410
			2.5		8		25	

Insert Arrangements

VIEW FOR SOCKET FROM THE MATING SIDE

Conventional shell size	Contact layout	Conventional connector designation	Contact diameter, mm	Number of contacts		Arbitrary Number of Contact Set	Max. current carrying capacity, A	
				In connector	of each diameter		per single contact	total per connector
55			1.5	31	14	3	10	512
			2.5		14		25	
			3.5		3		50	
			1.5	35	33	3	10	380
			3.5		2		25	
60			1.5	31	14	1	10	552
			2.5		14		25	
			3.5		2		50	
			5.5		1		80	
			2.5	45	45	3	25	520
			1.5	45	25	2	10	515
			2.5		20		25	
			1.5	47	40	2	10	399
			2.5		7		25	
			2.5	50	50	3	10	500

Series 2PTT (2RTT Series)

2PTT Series (2RTT SERIES)



Plug with Straight Split Hood



Plug with Angled Split Hood



Receptacle with Straight Hood

Connector Designation & Ordering Information

RUSSIAN--> 2PTT 20 Б(K) П(y) Э(H) 4 Ш(Г) 6 0 В

ENGLISH--> 2RTT 20 B(K) P(U) E(N) 4 SH(G) 6 0 V

Series

Conventional shell size

Shell type
B-Receptacle
K-Plug

Backshell style: P=Straight
U-angled

Backshell nut style: E-for shielded cable
N-for unshielded cable

Number of contacts

Contact : SH - Male, G - Female

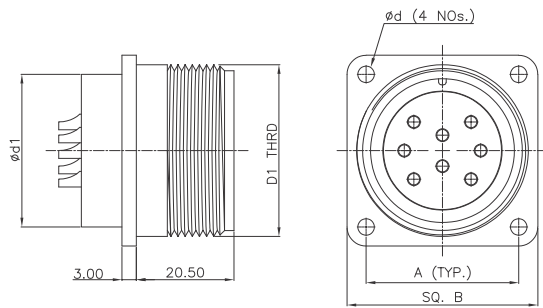
Designation of contact combination-reference number

0-backshell without rubber outer shells, sleeves and washers
Without "0"-backshells with rubber outer shells, sleeves

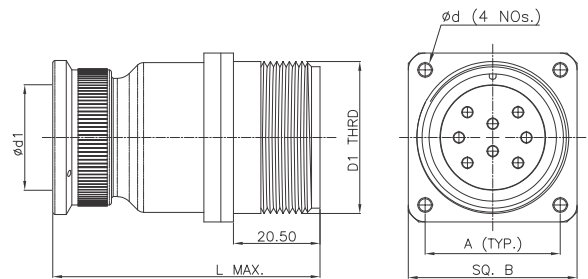
All climatic conditions

Receptacle

RECEPTACLE ASSEMBLY WITHOUT ACCESSORIES



RECEPTACLE WITH STRAIGHT HOOD & SCREEN CLAMP



Receptacle Pin Assembly Without Accessories



Receptacle Pin With Straight Hood & Screen Clamp



SHELL SIZE	A	B	D1 THRD	ød1	ød
12	16	22	M16x1.5	12	3.5
16	19	25	M20X1.5	16	3.5
20	22	30	M24X1.5	20	3.5
28	30	38	M33X1.5	28	3.5
32	32	40	M36X1.5	32	3.5
36	34	42	M39X1.5	36	3.5
40	40	48	M45X1.5	40	3.5
48	48	58	M52X1.5	48	4.5
55	52	64	M60X1.5	55	4.5
60	54	68	M64X1.5	60	4.5

SHELL SIZE	A	B	D1 THRD	ød1 (min. cable entry)	ød	L MAX.
12	16	22	M16x1.5	8	M3	51
16	19	25	M20X1.5	11	M3	55
20	22	30	M24X1.5	18	M3	54
28	30	38	M33X1.5	25	M3	59
32	32	40	M36X1.5	25	M3	63
36	34	42	M39X1.5	29	M3	65
40	40	48	M45X1.5	32	M3	65
48	48	58	M52X1.5	36	M4	87
55	52	64	M60X1.5	46	M4	87
60	54	68	M64X1.5	50	M4	85

Receptacle Socket Assembly Without Accessories



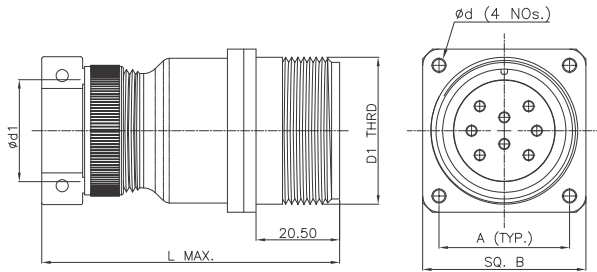
Receptacle Socket With Straight Hood & Screen Clamp



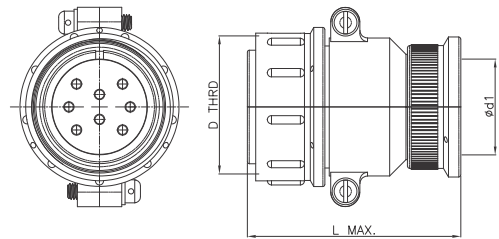
ALL DIMENSIONS ARE IN MM

Receptacle

RECEPTACLE WITH STRAIGHT HOOD & CABLE CLAMP



PLUG WITH STRAIGHT SPLIT HOOD & SCREEN CLAMP



Receptacle Pin With Straight Hood & Cable Clamp



Plug Pin With Straight Split Hood & Screen Clamp



SHELL SIZE	A	B	D1 THRD	ød1 (min. cable entry)	ød	L MAX.
12	16	22	M16x1.5	5	M3	63
16	19	25	M20X1.5	7	M3	65
20	22	30	M24X1.5	14	M3	70
28	30	38	M33X1.5	21	M3	77
32	32	40	M36X1.5	21	M3	81
36	34	42	M39X1.5	23	M3	83
40	40	48	M45X1.5	24	M3	83
48	48	58	M52X1.5	32	M4	85
55	52	64	M60X1.5	40	M4	85
60	54	68	M64X1.5	48	M4	83

SHELL SIZE	D1 THRD	ød1 (min. cable entry)	L MAX.
12	M16x1.5	8	50
16	M20X1.5	11	50
20	M24X1.5	18	53
28	M33X1.5	25	56
32	M36X1.5	25	58
36	M39X1.5	29	62
40	M45X1.5	32	64
48	M52X1.5	36	66
55	M60X1.5	46	66
60	M64X1.5	50	64

Receptacle Socket With Straight Hood & Cable Clamp



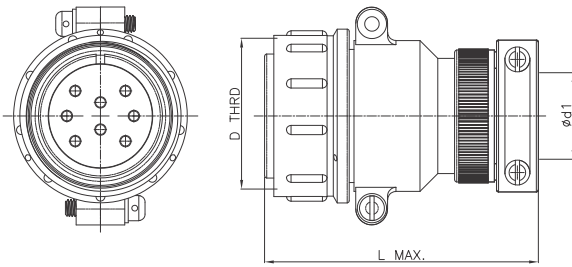
Plug Socket With Straight Split Hood & Screen Clamp



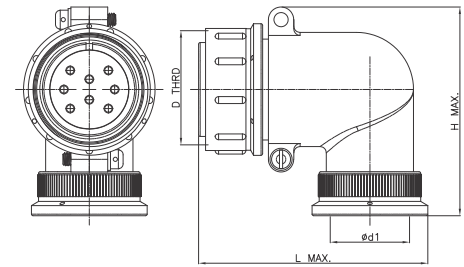
ALL DIMENSIONS ARE IN MM

Receptacle

PLUG WITH STRAIGHT SPLIT HOOD & CABLE CLAMP



PLUG WITH ANGULAR SPLIT HOOD & SCREEN CLAMP



Plug Pin With Straight Split Hood & Cable Clamp



Plug Pin With Angular Split Hood & Screen Clamp



SHELL SIZE	D1 THRD	ød1 (min. cable entry)	L MAX.
12	M16x1.5	5	62
16	M20x1.5	7	60
20	M24x1.5	14	64
28	M33x1.5	21	70
32	M36x1.5	21	72
36	M39x1.5	23	76
40	M45x1.5	24	78
48	M52x1.5	32	80
55	M60x1.5	40	80
60	M64x1.5	48	78

SHELL SIZE	D1 THRD	ød1 (min. cable entry)	H MAX.	L MAX.
12	M16x1.5	8	39	51
16	M20x1.5	11	36	56
20	M24x1.5	18	45	64
28	M33x1.5	25	62	73
32	M36x1.5	25	66	73
36	M39x1.5	29	67	76
40	M45x1.5	32	72	80
48	M52x1.5	36	81	90
55	M60x1.5	46	106	98
60	M64x1.5	50	94	103

Plug Socket With Straight Split Hood & Cable Clamp



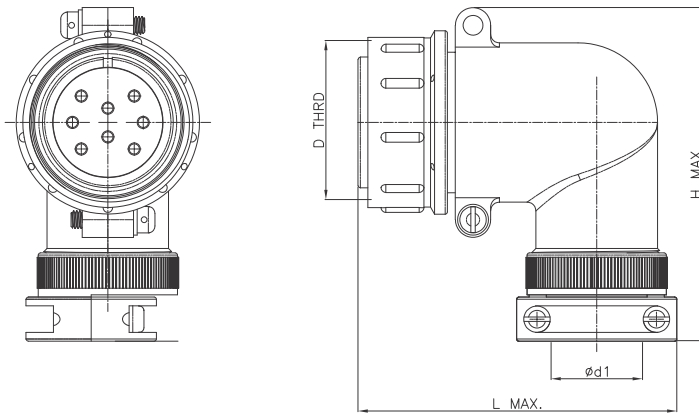
Plug Socket With Angular Split Hood & Screen Clamp



ALL DIMENSIONS ARE IN MM

Receptacle

PLUG WITH STRAIGHT SPLIT HOOD & CABLE CLAMP



SHELL SIZE	D1 THRD	ød1 (min. cable entry)	H MAX.	L MAX.
12	M16x1.5	5	51.5	53.5
16	M20X1.5	7	53.5	60
20	M24X1.5	14	63	68
28	M33X1.5	21	78	76.5
32	M36X1.5	21	82	76.5
36	M39X1.5	23	83.5	79
40	M45X1.5	24	88	84.5
48	M52X1.5	32	97	95.5
55	M60X1.5	40	104	102
60	M64X1.5	48	110	108

Plug Pin With Angular Split Hood & Cable Clamp

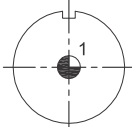
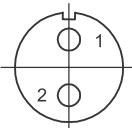
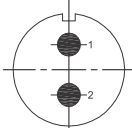
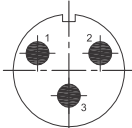
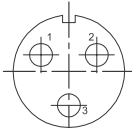
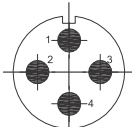
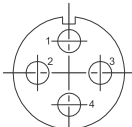
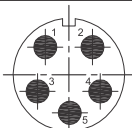
Plug Socket With Angular Split Hood & Cable Clamp



ALL DIMENSIONS ARE IN MM

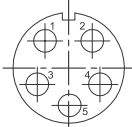
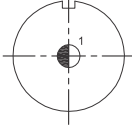
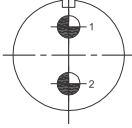
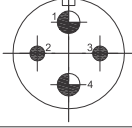
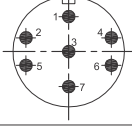
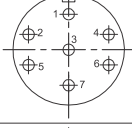
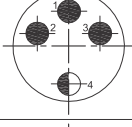
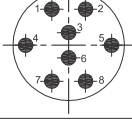
Insert Arrangements

VIEW FOR SOCKET FROM THE MATING SIDE

Conventional shell size	Contact Layout	Conventional connector designation	Contact diameter mm	Number of contacts		Designation of contact combination	Max. current carrying capacity, A	
				in connector	of each diameter		per single contact	total per connector
12	 12/1/1		2.5	1	1	1	35	25
16	 16/1/2		3.5	1	1	2	50	50
	 16/2/3		1.5	2	2	3	20	20
20	 20/2/4		2.5	2	2	4	35	50
	 20/3/5		2.5	3	3	5	35	75
	 20/3/38		1.5	3	3	38	20	30
	 20/4/6		2.5	4	4	6	35	100
	 20/4/39		1.5	4	4	39	20	40
	 20/5/40		2.5	5	5	40	35	125

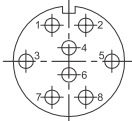
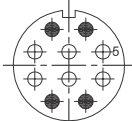
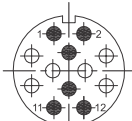
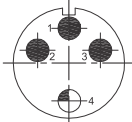
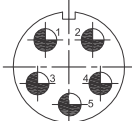
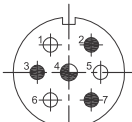
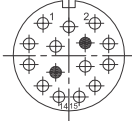
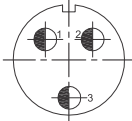
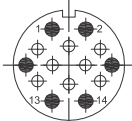
Insert Arrangements

VIEW FOR SOCKET FROM THE MATING SIDE

Conventional shell size	Contact Layout	Conventional connector designation	Contact diameter mm	Number of contacts		Designation of contact combination	Max. current carrying capacity, A	
				in connector	of each diameter		per single contact	total per connector
20	 20/5/7		1.5	5	5	7	20	50
28	 28/1/8		5.5	1	1	8	100	100
	 28/2/9		3.5	2	2	9	50	100
	 28/4/10		2.5	4	2	10	35	150
			3.5		2		50	
	 28/7/11		2.5	7	7	11	35	155
	 28/7/41		1.5	7	7	41	20	70
32	 32/1/12		9	1	1	12	200	200
	 32/4/13		5.5	4	1	13	100	175
			2.5		3		35	
	 32/8/14		2.5	8	8	14	35	175

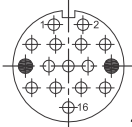
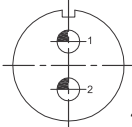
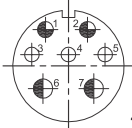
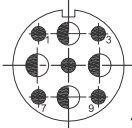
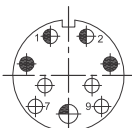
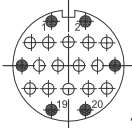
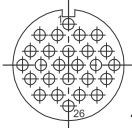
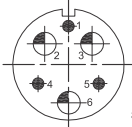
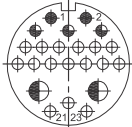
Insert Arrangements

VIEW FOR SOCKET FROM THE MATING SIDE

Conventional shell size	Contact Layout	Conventional connector designation	Contact diameter, mm	Number of contacts		Designation of contact combination	Max. current carrying capacity, A	
				in connector	of each diameter		per single contact	total per connector
32	 32/8/42		1.5	8	8	42	20	80
	 32/10/15		1.5	10	6	15	20	160
			2.5		4		35	
	 32/12/16		1.5	12	6	16	20	210
			2.5		6		35	
36	 32/4/17		2.5	4	3	17	35	275
			9		1		200	
	 36/5/18		3.5	5	5	18	50	250
	 36/7/19		1.5	7	3	19	20	155
			2.5		3		35	
			3.5		1		50	
	 36/15/20		1.5	15	13	20	20	180
			2.5		2		35	
40	 36/3/21		5.5	3	3	21	100	300
	 40/14/22		1.5	14	8	22	20	230
			2.5		6		35	

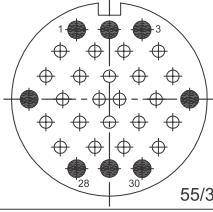
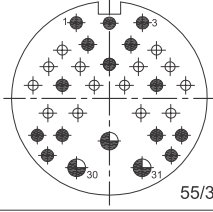
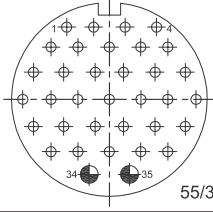
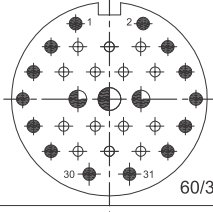
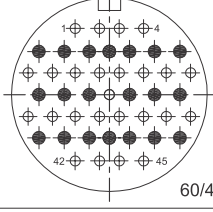
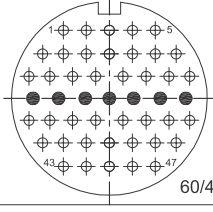
Insert Arrangements

VIEW FOR SOCKET FROM THE MATING SIDE

Conventional shell size	Contact Layout	Conventional connector designation	Contact diameter, mm	Number of contacts		Designation of contact combination	Max. current carrying capacity, A	
				in connector	of each diameter		per single contact	total per connector
40	 40/16/23		1.5	16	14	23	20	190
			2.5		2		35	
48	 48/2/24		9	2	2	24	200	400
	 48/7/25		1.5	7	3	25	20	330
			3.5		2		50	
			5.5		2		100	
	 48/9/27		2.5	9	5	27	35	525
			5.5		4		100	
	 48/9/26		1.5	9	4	26	20	490
			2.5		2		35	
			5.5		2		100	
			9		1		200	
	 48/20/28		1.5	20	14	28	20	290
			2.5		6		35	
	 48/26/29		1.5	26	26	29	20	234
55	 55/6/30		2.5	6	3	30	35	475
			9		3		200	
	 55/23/31		1.5	23	16	31	20	503
			2.5		2		35	
			3.5		3		45	
			5.5		2		90	

Insert Arrangements

VIEW FOR SOCKET FROM THE MATING SIDE

Conventional shell size	Contact Layout	Conventional connector designation	Contact diameter, mm	Number of contacts		Designation of contact combination	Max. current carrying capacity, A	
				in connector	of each diameter		per single contact	total per connector
55			1.5	30	22	32	20	374
			2.5		8		20	
			1.5	31	14	33	20	512
			2.5		14		35	
			3.5		3		40	
			1.5	35	33	34	20	344
			3.5		2		35	
60			1.5	31	14	35	20	552
			2.5		14		35	
			3.5		2		40	
			5.5		1		80	
			1.5	45	25	36	20	515
			2.5		20		35	
			1.5	47	40	37	20	399
			2.5		7		35	

Series 2PTT (2RTT Series)

TECHNICAL DATA:

A) Operating voltage (max. at sea level) 500 V (rms)

B) Operating current and contact resistance refer table given below

Contact size mm	Rated Current-A	Contact Resistance m Ohms (Max)
1.5	14	2.50
2.5	25	1.00
3.5	40	0.75
5.5	80	0.30
9.0	200	0.15

C) Operating Temperature : -55°c to +125°c

D) Material

- | | |
|--------------------------------|--------------------------|
| 1. Insulator | : Hard Dielectric |
| 2. Socket contact 1.5, & 2.5 | : Copper Alloy |
| 3. Socket contact 3.5, 5.5 & 9 | : Copper Alloy |
| 4. Pin contact | : Copper Alloy |
| 5. Contact clip | : As per Ty-14-1-4618-89 |
| 6. Shell | : Aluminium Alloy |

E) Finish

- | | |
|------------|----------------------------------|
| a. Contact | : Silver Plated |
| b. Shell | : Cadmium Plated with Olive drab |

F) Insulation resistance : 5000 M Ohms (Min)

G) Voltage proof (At sea level) : 2000V AC (rms)

Series 2 PM & 2PMд (2RM & 2RMD Series)

2PM & 2PMд Series (2RM & 2RMD Series)



2RM and 2MRD

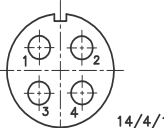
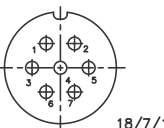
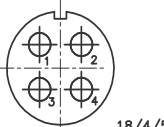
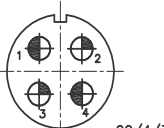
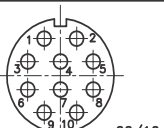
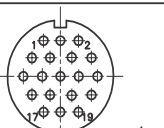
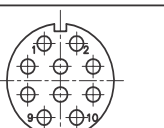
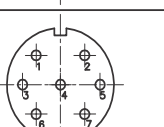
The 2RM and 2MRD Series Connectors find their applications in electrical and radio equipment. The 2RM and 2RMD Connectors differ in the contact layout. The Connectors have threaded coupling.

Contact Voltage Rating

Connector Series	Contact Dia. mm	Graphical Symbol	Operating Voltage v	Connector Series	Contact Dia. mm	Graphical Symbol	Operating Voltage v
2RM	1.0		500	2RMD	1.5		560
	1.5		560		1.5		560
	2.0		560		2.0		560
	3.0		560		3.0		560

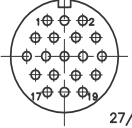
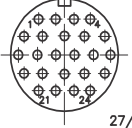
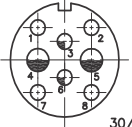
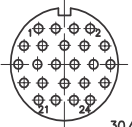
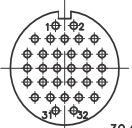
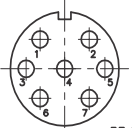
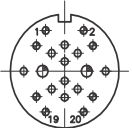
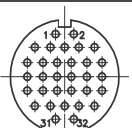
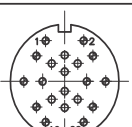
Insert Arrangements

VIEW FOR SOCKET FROM THE MATING SIDE

Conventional shell size	Connector type	Contact layout	Contact designation	Contact diameter, mm	Number of contacts		Designation of contact combination	Max. current carrying capacity, A		Max. Operating Voltage, V
					in one connector	of each diameter		per single contact	total per connector	
14	2RM			1.0	4	4	1	8	27	560
18	2RM			1.0	7	7	1	7	40	560
	2RMD			1.5	4	4	5	15	50	560
22	2RM			2.0	4	2	3	18	80	560
				3.0		2		32		
	2RM			1.0	10	10	1	7	58	560
24	2RM			1.0	19	19	1	5	80	560
	2RMD			1.5	10	10	5	10	83	560
27	2RM			1.0	7	5	2	8	60	700
				1.5		2		16		
	2RMD			1.5	7	7	5	12	70	700

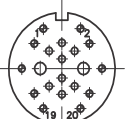
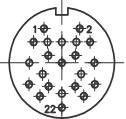
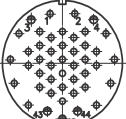
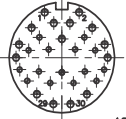
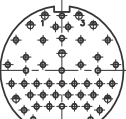
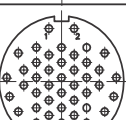
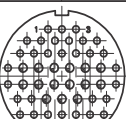
Insert Arrangements

VIEW FOR SOCKET FROM THE MATING SIDE

Conventional shell size	Connector type	Contact layout	Contact designation	Contact diameter, mm	Number of contacts		Designation of contact combination	Max. current carrying capacity, A		Max. Operating Voltage, V
					in one connector	of each diameter		per single contact	total per connector	
27	2RMD	 27/19/5		1.5	19	19	5	7	110	560
	2RM	 27/24/1		1.0	24	24	1	7	100	560
30	2RMD	 30/8/7		1.5	8	4	7	13	120	560
				2.0		2		18		
				3.0		2		36		
	2RMD	 30/24/5		1.5	24	24	5	7	140	560
	2RM	 30/32/1		1.0	32	32	1	4	106	560
33	2RM	 33/7/9		3.0	7	7	9	32	128	560
	2RM	 33/20/4		1.0	20	10	4	6	110	700
				1.0		8				560
				3.0		2		36		
	2RMD	 33/32/5		1.5	32	32	5	6	160	560
36	2RMD	 36/20/8		1.5	20	12	5	8	133	700
				1.5		8				560

Insert Arrangements

VIEW FOR SOCKET FROM THE MATING SIDE

Conventional shell size	Connector type	Contact layout	Contact designation	Contact diameter, mm	Number of contacts		Designation of contact combination	Max. current carrying capacity, A		Max. Operating Voltage, V
					in one connector	of each diameter		per single contact	total per connector	
36	2RMD	 36/20/6		1.5	20	10	6	10	147	700
				1.5		8		36		560
				3.0		2				
39	2RMD	 39/22/5		1.5	22	17	5	8	146	700
				1.5		5				560
	2RM	 39/45/2		1.0	45	40	2	4	167	700
				1.5		5		8		560
42	2RM	 42/30/2		1.0	30	15	2	4.5	168	700
				1.5		15		9		560
	2RM	 42/50/2		1.0	50	43	2	4	190	700
				1.5		7		8		700
	2RMD	 42/45/5		1.5	45	45	5	5	187	560
										
45	2RMD	 45/50/8		1.5	50	35	8	5	260	560
				2.0		15		7.5		

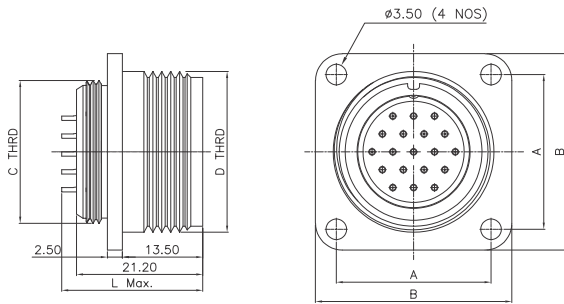
Connectors Designation

CONNECTOR DESIGNATION & ORDERING INFORMATION:

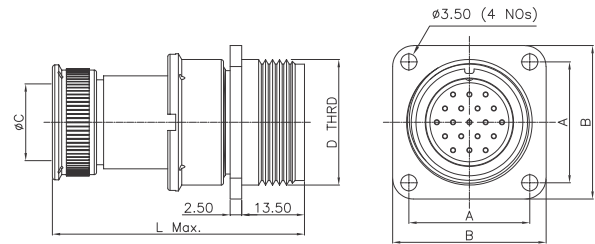
Russian	-->	<u>2PM</u>	<u>Г</u>	<u>18</u>	<u>К</u>	<u>П</u>	<u>Э</u>	<u>7</u>	<u>Г</u>	<u>1</u>	<u>В</u>	<u>1</u>		
English	-->	<u>2RM</u>	<u>G</u>	<u>18</u>	<u>K</u>	<u>P</u>	<u>E</u>	<u>7</u>	<u>G</u>	<u>1</u>	<u>V</u>	<u>1</u>	<u>B,L</u>	<u>HD</u>
Series 2RM (2PM) Series 2RMD (2PMД) Series														
G- For Sealed Connector Applicable Only for Receptacle														
Shell Size (14, 18, 22, 24, 27, 30, 33, 36, 39, 42, & 45)														
B- For Receptacle K- For Plug														
P- For Straight Hood U- For Angle Hood														
E- For Screen Clamp N- For Cable Clamp														
Number of Contacts														
G- For Socket Contact and SH- For Pin Contact														
Insert Configuration Number														
Type of Plating on Contact A- For Gold and V- For Silver														
Operating Temperature 1- Stands For -55°c to + 125°c														
B- For Fixed Connector Type Without Backside Thread L- For 90° Orientation of Insert														
Connector with Hard Phenolic Insert (Connector with Neoprene Rubber connector if HD letter in marking is absent)														

Receptacle

RECEPTACLE WITHOUT ACCESSORIES



RECEPTACLE WITH STRAIGHT HOOD & SCREEN CLAMP



Receptacle Pin Without Accessories



SHELL SIZE	A	B	C THREAD	D THREAD
14	17	24	M14X1.0	M16X1.0
18	20	27	M18X1.0	M20X1.0
22	23	30	M22X1.0	M24X1.0
24	26	33	M24X1.0	M27X1.5
27	29	38	M27X1.0	M30X1.5
30	31	38	M30X1.0	M33X1.5
33	32	40	M33X1.0	M36X1.5
36	35	43	M36X1.0	M39X1.5
39	37	46	M39X1.0	M42X1.5
42	40	49	M42X1.0	M45X1.5
45	43	52	M45X1.0	M48X1.5

Receptacle Pin With Straight Hood & Screen Clamp



SHELL SIZE	A	B	ØC	D THREAD	L MAX.
14	17	24	6.5	M16X1.0	48
18	20	27	10.5	M20X1.0	48
22	23	30	14	M24X1.0	48
24	26	33	16.5	M27X1.5	54
27	29	38	18.5	M30X1.5	54
30	31	38	20.5	M33X1.5	54
33	32	40	23	M36X1.5	59
36	35	43	23	M39X1.5	59
39	37	46	24.5	M42X1.5	59
42	40	49	30.5	M45X1.5	59
45	43	52	30.5	M48X1.5	59

Receptacle Socket Without Accessories



Receptacle Socket With Straight Hood & Screen Clamp



FOR CONNECTORS WITH Ø1.0 AND Ø1.5MM CONTACTS DIMENSIONS L=26.00 MAX.
FOR CONNECTORS WITH Ø2.0 AND Ø3.0MM CONTACTS DIMENSIONS L=28.00 MAX.

RECEPTACLE WITH STRAIGHT HOOD & CABLE CLAMP

Technical drawing of a receptacle with a straight hood and cable clamp. The drawing includes two views: a side view and a front view.

Side View Dimensions:

- Overall length: L MAX.
- Distance from front flange to cable clamp: 2.50
- Distance from cable clamp to rear flange: 13.50
- Outer diameter of rear flange: ϕC
- Threaded section: D THRD

Front View Dimensions:

- Outer diameter of front flange: $\phi 3.50$ (4 NOs)
- Distance between mounting holes: A
- Overall diameter: B

PLUG WITH STRAIGHT HOOD & SCREEN CLAMP

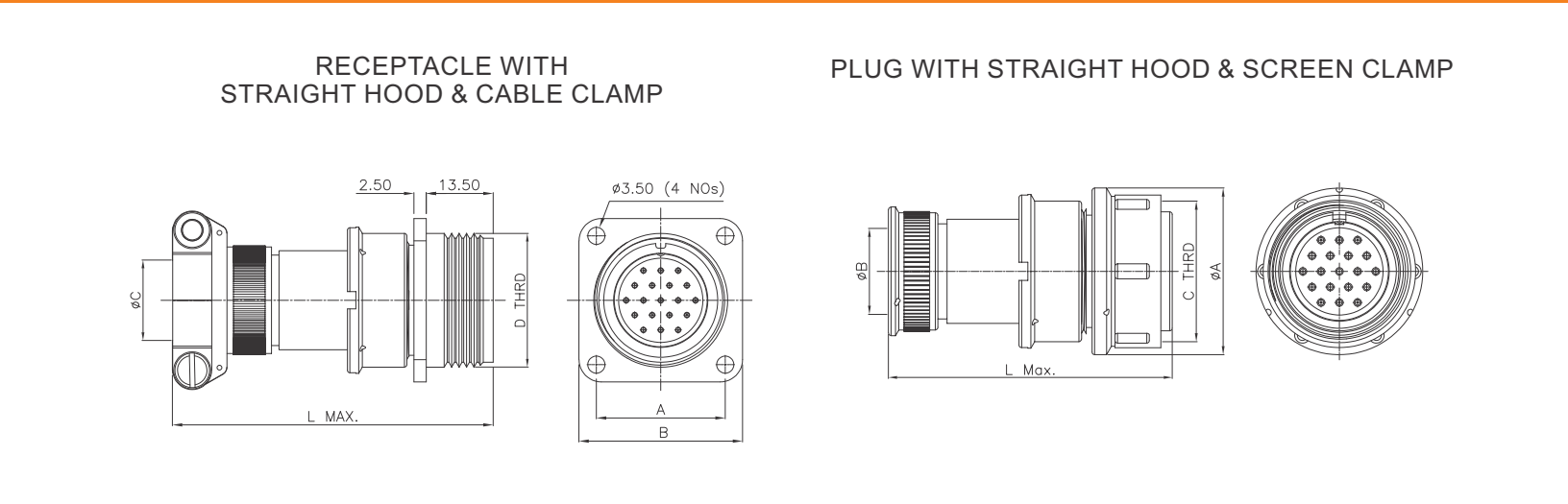
Technical drawing of a plug with a straight hood and screen clamp. The drawing includes two views: a side view and a front view.

Side View Dimensions:

- Overall length: L Max.
- Outer diameter of front flange: ϕB
- Threaded section: C THRD
- Outer diameter of rear flange: ϕA

Front View:

- Shows the internal contact pins and the threaded section.



RECEPTACLE WITH STRAIGHT HOOD & CABLE CLAMP

Technical drawing of a receptacle with a straight hood and cable clamp. The drawing includes two views: a side view and a front view.

Side View Dimensions:

- Overall length: L MAX.
- Distance from front flange to cable clamp: 2.50
- Distance from cable clamp to rear flange: 13.50
- Outer diameter of rear flange: ϕC
- Threaded section: D THRD

Front View Dimensions:

- Outer diameter of front flange: $\phi 3.50$ (4 NOs)
- Distance between mounting holes: A
- Overall diameter: B

PLUG WITH STRAIGHT HOOD & SCREEN CLAMP

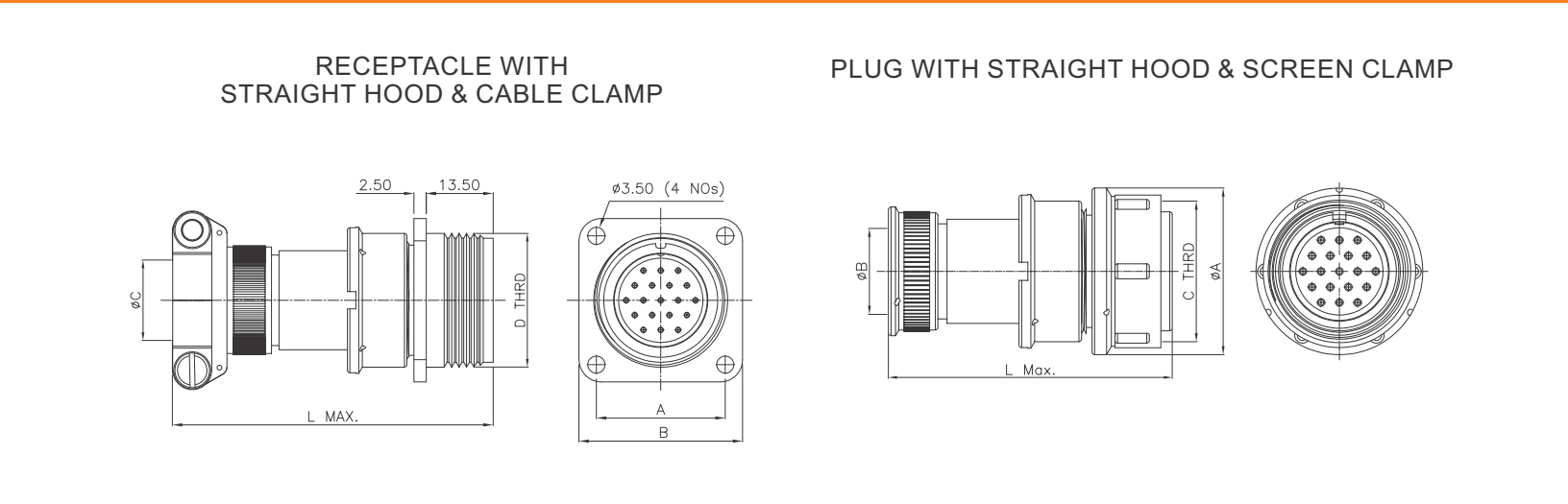
Technical drawing of a plug with a straight hood and screen clamp. The drawing includes two views: a side view and a front view.

Side View Dimensions:

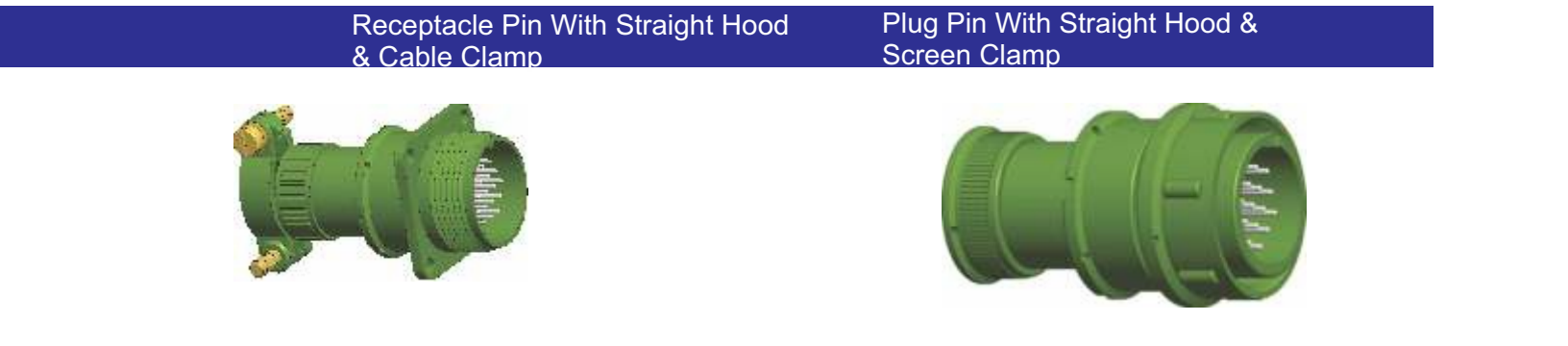
- Overall length: L Max.
- Outer diameter of front flange: ϕB
- Threaded section: C THRD
- Outer diameter of rear flange: ϕA

Front View:

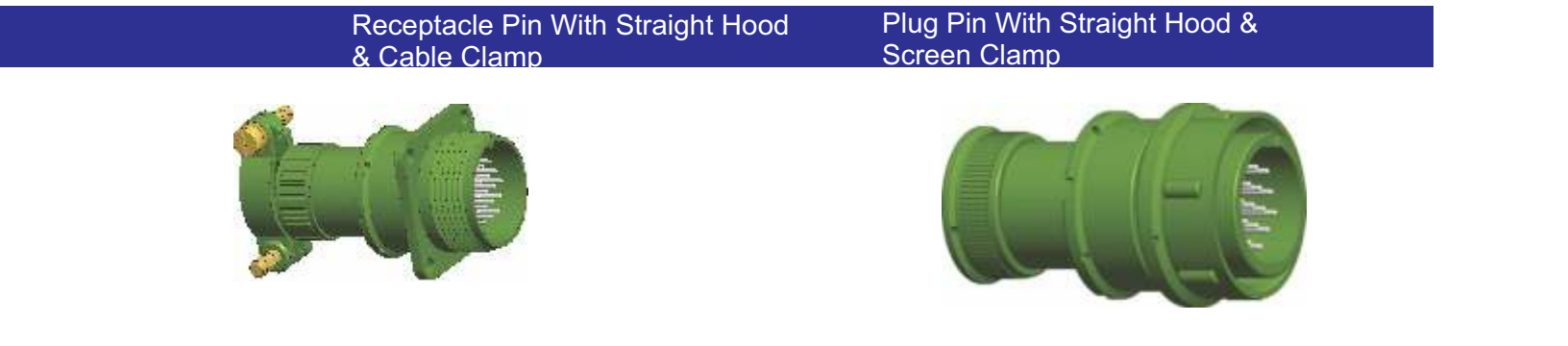
- Shows the internal contact pins and the outer shield.



	Receptacle Pin With Straight Hood & Cable Clamp	Plug Pin With Straight Hood & Screen Clamp
1		



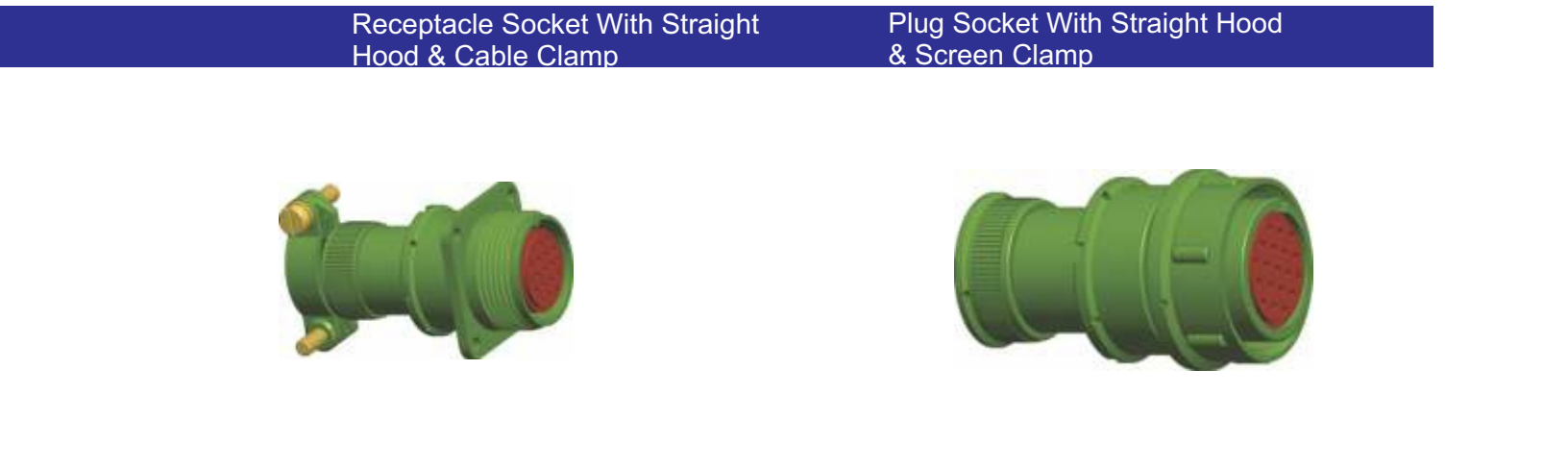
	Receptacle Pin With Straight Hood & Cable Clamp	Plug Pin With Straight Hood & Screen Clamp
1		



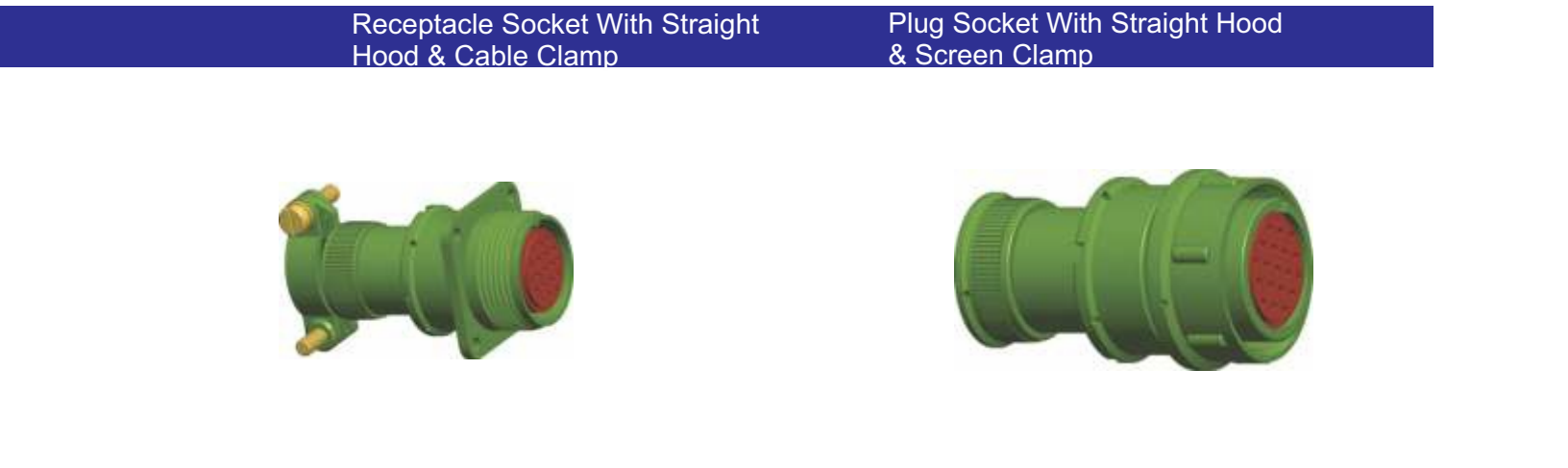
SHELL SIZE	A	B	øC	D THREAD	L MAX.	SHELL SIZE	øA	øB	C THREAD	L MAX.
14	17	24	6.5	M16X1.0	53.5	14	22	6.5	M16X1.0	48
18	20	27	10.5	M20X1.0	53.5	18	25	10.5	M20X1.0	48
22	23	30	14	M24X1.0	56	22	29	14	M24X1.0	48
24	26	33	16.5	M27X1.5	62.5	24	32	16.5	M27X1.5	54
27	29	38	18.5	M30X1.5	62.5	27	35	18.5	M30X1.5	54
30	31	38	20.5	M33X1.5	62.5	30	39	20.5	M33X1.5	54
33	32	40	23	M36X1.5	62.5	33	42	23	M36X1.5	59
36	35	43	23	M39X1.5	67.5	36	45	23	M39X1.5	59
39	37	46	24.5	M42X1.5	67.5	39	48	24.5	M42X1.5	59
42	40	49	30.5	M45X1.5	67.5	42	51	30.5	M45X1.5	59
45	43	52	30.5	M48X1.5	67.5	45	54	30.5	M48X1.5	59

SHELL SIZE	A	B	øC	D THREAD	L MAX.	SHELL SIZE	øA	øB	C THREAD	L MAX.
14	17	24	6.5	M16X1.0	53.5	14	22	6.5	M16X1.0	48
18	20	27	10.5	M20X1.0	53.5	18	25	10.5	M20X1.0	48
22	23	30	14	M24X1.0	56	22	29	14	M24X1.0	48
24	26	33	16.5	M27X1.5	62.5	24	32	16.5	M27X1.5	54
27	29	38	18.5	M30X1.5	62.5	27	35	18.5	M30X1.5	54
30	31	38	20.5	M33X1.5	62.5	30	39	20.5	M33X1.5	54
33	32	40	23	M36X1.5	62.5	33	42	23	M36X1.5	59
36	35	43	23	M39X1.5	67.5	36	45	23	M39X1.5	59
39	37	46	24.5	M42X1.5	67.5	39	48	24.5	M42X1.5	59
42	40	49	30.5	M45X1.5	67.5	42	51	30.5	M45X1.5	59
45	43	52	30.5	M48X1.5	67.5	45	54	30.5	M48X1.5	59

	Receptacle Socket With Straight Hood & Cable Clamp	Plug Socket With Straight Hood & Screen Clamp
Part Number	70-689	70-690
Material	Aluminum	Aluminum
Weight	0.15 lb.	0.15 lb.
Dimensions (H x W x D)	1.5 x 1.5 x 1.5 in.	1.5 x 1.5 x 1.5 in.
Mounting Hole Spacing (in.)	1.5	1.5
Max. Wire Size (AWG)	14	14
Max. Voltage (V)	125	125
Max. Current (A)	15	15
Notes	See drawing for details.	See drawing for details.

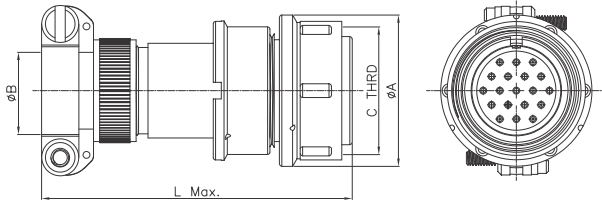


	Receptacle Socket With Straight Hood & Cable Clamp	Plug Socket With Straight Hood & Screen Clamp
Part Number	70-689	70-690
Material	Aluminum	Aluminum
Weight	0.15 lb.	0.15 lb.
Dimensions	See Drawing	See Drawing
Notes	1. See drawing for dimensions. 2. See drawing for details.	1. See drawing for dimensions. 2. See drawing for details.

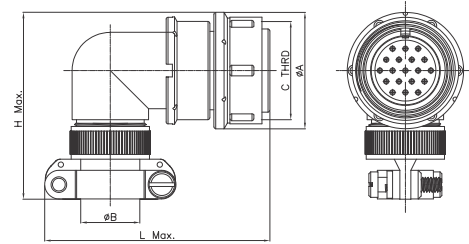


Receptacle

PLUG WITH STRAIGHT HOOD & CABLE CLAMP



PLUG WITH ANGLE HOOD & CABLE CLAMP



Plug Pin With Straight Hood & Cable Clamp



SHELL SIZE	øA	øB	C THREAD	L MAX.
14	22	6.5	M16X1.0	53.5
18	25	10.5	M20X1.0	53.5
22	29	14	M24X1.0	56
24	32	16.5	M27X1.5	62.5
27	35	18.5	M30X1.5	62.5
30	39	20.5	M33X1.5	62.5
33	42	23	M36X1.5	67.5
36	45	23	M39X1.5	67.5
39	48	24.5	M42X1.5	67.5
42	51	30.5	M45X1.5	67.5
45	54	30.5	M48X1.5	67.5

Plug Pin With Angle Hood & Cable Clamp



SHELL SIZE	øA	øB	C THREAD	H MAX.	L MAX.
14	22	6.5	M16X1.0	37.5	53.5
18	25	10.5	M20X1.0	41	53.5
22	29	14	M24X1.0	47.5	56
24	32	16.5	M27X1.5	50	62.5
27	35	18.5	M30X1.5	53.5	62.5
30	39	20.5	M33X1.5	57.5	62.5
33	42	23	M36X1.5	50.5	67.5
36	45	23	M39X1.5	63.5	67.5
39	48	24.5	M42X1.5	56.5	67.5
42	51	30.5	M45X1.5	69.5	67.5
45	54	30.5	M48X1.5	72.5	67.5

Plug Socket With Straight Hood & Cable Clamp

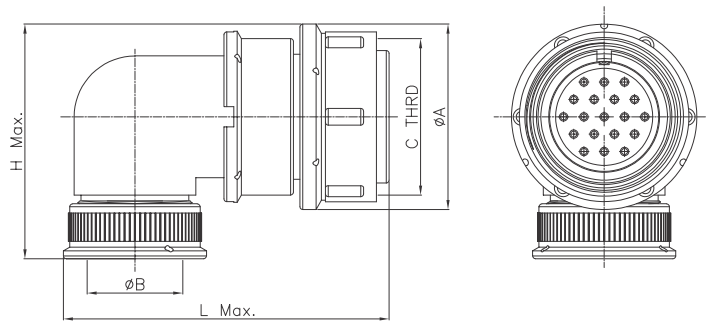


Plug Socket With Angle Hood & Cable Clamp



Receptacle

PLUG WITH ANGLE HOOD & SCREEN CLAMP



SHELL SIZE	øA	øB	C THREAD	H MAX.	L MAX.
14	22	6.5	M16X1.0	31	53.5
18	25	10.5	M20X1.0	34.5	53.5
22	29	14	M24X1.0	38.5	56
24	32	16.5	M27X1.5	41	62.5
27	35	18.5	M30X1.5	44	62.5
30	39	20.5	M33X1.5	48	62.5
33	42	23	M36X1.5	51	67.5
36	45	23	M39X1.5	54	67.5
39	48	24.5	M42X1.5	57	67.5
42	51	30.5	M45X1.5	60	67.5
45	54	30.5	M48X1.5	63	67.5

Plug Pin With Angle Hood & Screen Clamp

Plug Socket With Angle Hood & Screen Clamp



Series 2RM & 2RMD

TECHNICAL DATA:

A) Operating temperature: -55°c to +125°c

B) Operating voltage (at sea level) 500 V AC (rms) max

C) Operating current and contact resistance refer table given below :

Contact Dia-mm	Rated Current-A	Contact Resistance m Ohms (Max)
1.0	7A	5.0
1.5	10A	2.5
2.0	18A	1.6
3.0	32A	0.8

D) Insulation resistance : 5000 MΩ(Min)

E) Voltage proof (At sea level) :1500V AC (rms)

F) Material

- | | |
|---|-------------------------------------|
| 1. Insulator | : Hard Dielectric / Neoprene Rubber |
| 2. Socket contact $\varnothing$ 1.0 & $\varnothing$ 1.5 | : Brass |
| 3. Socket contact $\varnothing$ 2.0 & $\varnothing$ 3.0 | : Brass/Phosphor bronze |
| 4. Pin contact | : Brass |
| 5. Contact clip | : As per Ty-14-1-4618-89 |
| 6. Shell | : Aluminum Alloy |
| 7. 'O' ring, 'D' Ring | : Silicon |

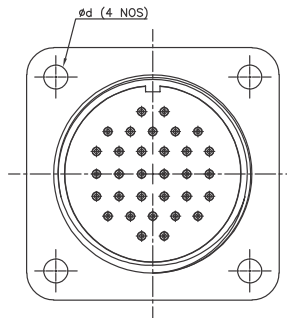
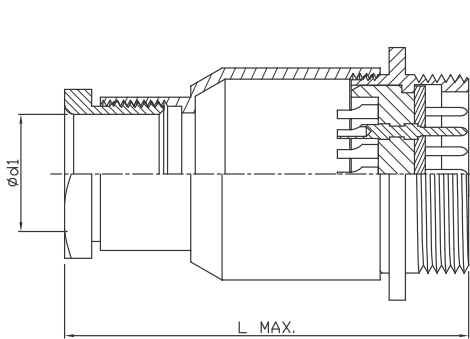
G) Finish

- | | |
|------------|--|
| a. Contact | : Silver/Gold Plated |
| b. Shell | : Cadmium Plated with Olive drab passivation |

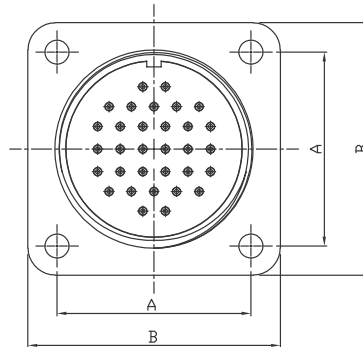
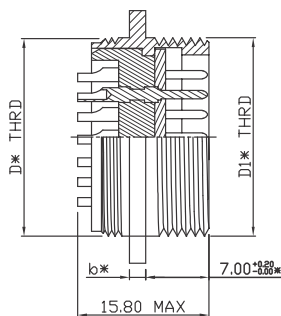
Series RS (PC)



Plug Connector With Accessories



Plug Connector Without Accessories



Connector P/N	NO. OF CONTACT	THREAD D*	THREAD D1*	A	B	ϕd	b*	$\phi d1$	L MAX.
Plug PC4TB	4	M10X0.75	M10X0.75	11.80	16.50	2.20	1.40	6.00	36.00
Plug PC7TB	7	M12X0.75	M12X0.75	13.20	18.00			8.00	38.00
Plug PC10TB	10	M14X0.75	M14X0.75	15.00	20.00			9.00	41.00
Plug PC19TB	19	M18X0.75	M18X1.00	18.00	24.00			11.00	43.00
Plug PC32TB	32	M22X0.75	M22X1.00	21.50	28.00	2.70	1.80	13.00	45.00
Plug PC50TB	50	M27X0.75	M27X1.00	26.00	33.00	3.20	2.00	16.00	48.00

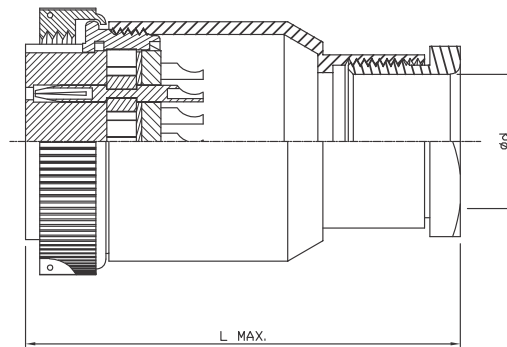
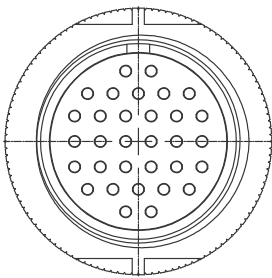
Note: 1) * Dimensions are for reference only.

ALL DIMENSIONS ARE IN MM

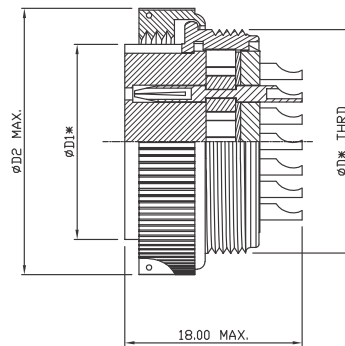
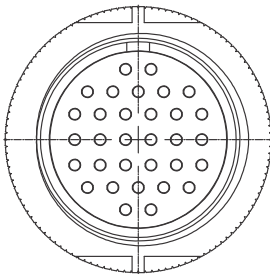
Series RS (PC)



Socket Connector With Accessories



Socket Connector Without Accessories



Connector Part Number	No. of Contacts	Thread ϕD^*	$\phi D1^*$	$\phi D2$ max	ϕd	L max
Socket PC4TB	4	M10X0.75	7.90	14.00	6.00	36.00
Socket PC7TB	7	M12X0.75	9.70	16.00	8.00	38.00
Socket PC10TB	10	M14X0.75	11.70	18.00	9.00	41.00
Socket PC19TB	19	M18X0.75	15.20	22.50	11.00	43.00
Socket PC32TB	32	M22X0.75	19.25	26.50	13.00	45.00
Socket PC50TB	50	M27X0.75	23.70	31.50	16.00	48.00

Note: 1) * Dimensions are for reference only.

ALL DIMENSIONS ARE IN MM

TECHNICAL DATA

- | | |
|---|------------------------|
| 1) Contact resistance | : - 5 m Ohms Max. |
| 2) Insulation resistance under normal climatic conditions | : - ≥ 5000 M Ohms |
| 3) Voltage Proof | : - 1500 V ac |

A) MATERIAL

- | | |
|-------------------|----------------------|
| 1. Insulator | : - Hard Dielectric |
| 2. Socket Contact | : - Beryllium Copper |
| 3. Pin Contact | : - Brass |
| 4. Shell | : - Aluminium Alloy |
| 5. Gasket | : - Silicon Rubber |

B) Finish

- | | |
|------------|--|
| 1. Contact | : - Silver/Gold Plated |
| 2. Shell | : - Cadmium Plated with Olive
Drab Passivation / Anodic Oxidation |

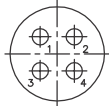
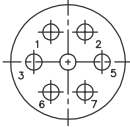
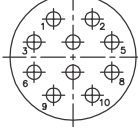
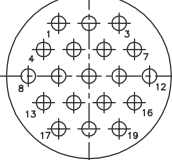
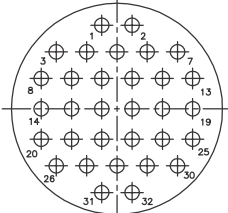
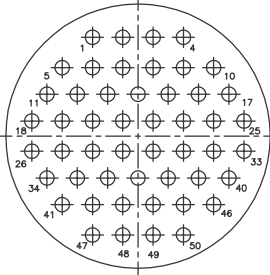
Connector Designation & Ordering Information

Russian	---> (Plug / Socket)	<u>PC</u>	<u>Г</u>	<u>10</u>	<u>A</u>	<u>TB</u>	
English	---> (Plug / Socket)	<u>RS</u>	<u>G</u>	<u>10</u>	<u>A</u>	<u>TV</u>	<u>AO</u>
Series							
G-Sealed Connector (only for Plug)							
Number of Contacts (4, 7, 10, 19, 32, 50)							
Contact Plating A- Gold, Letter absence means silver							
All Climatic Conditions							
Anodic Oxidation							
For Plug Connectors "With Hood" has to be added to connector number							

Insert Arrangements

VIEW FOR SOCKET FROM THE MATING SIDE

Contact layout and electro-mechanical parameters: Table - 1

Conventional shell size	Contact Layout	Contact Diameter in mm	Number of contacts for measuring the over heat temp.	Total No. of Contacts	Current load, A max.			Total no. of contact loaded with max. current	Operational voltage (amplitude value) V, max.		
					Total current load on connector	Max. operating current on single contact	On rest of contacts		In normal climatic conditions	At pressure less than 4400(33) to 2000 (13) Pa (mmmg cal)	At pressure less than 2000(13) to 0.00013(10 ⁻⁵) Pa (mmmg cal)
10		1.0	ANY	4	15	5	3	3	200	180	150
12			4	7	22		2.5	3			
14			4(7)	10	30		2.5	4			
18			10	19	40		1.5	5			
22			16(17)	32	60		1.5	7			
27			27(30)	50	75		1	10			

Series PPC 3,4 & 5



PPC3

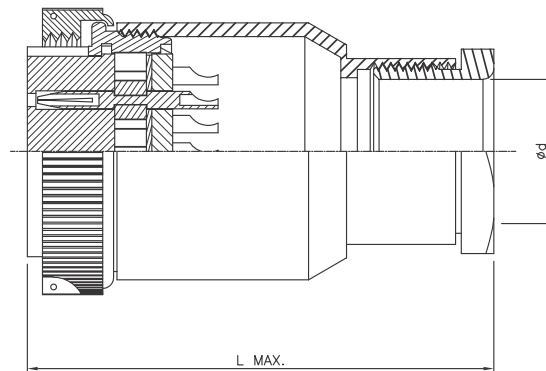
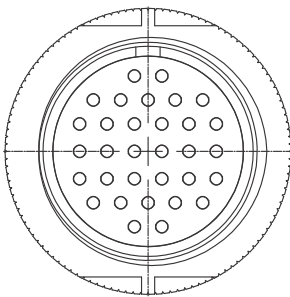


PPC4

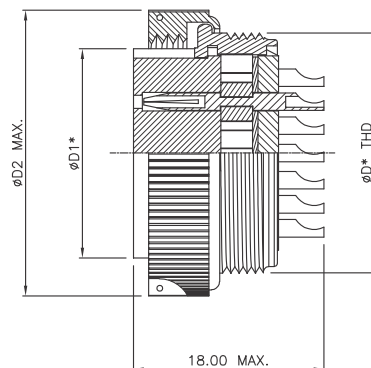
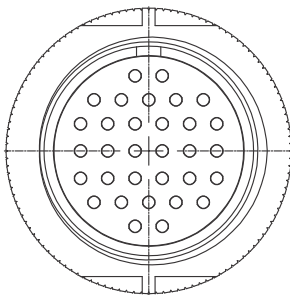


PPC5

Connector With Accessories



Connector Without Accessories



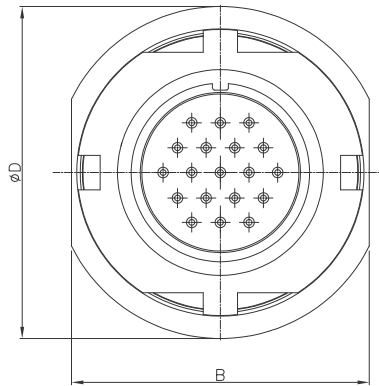
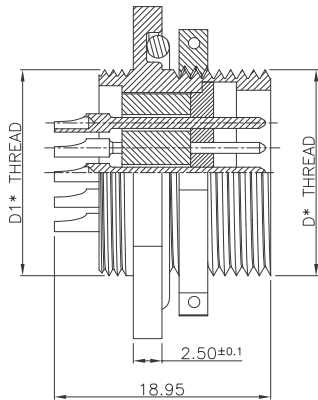
NOTE: 1) * DIMENSIONS ARE FOR REFERENCE ONLY.

No. of Contacts	Thread D*	D1*	D2 max	Ød	L max
10	M14X0.75	11.70	18.00	9.00	41.00
19	M18X0.75	15.20	22.50	11.00	43.00
32	M22X0.75	19.25	26.50	13.00	45.00
50	M27X0.75	23.70	31.50	16.00	48.00

ALL DIMENSIONS ARE IN MM

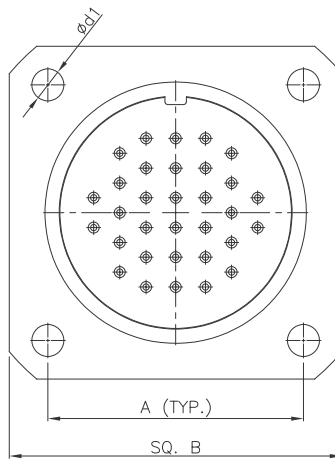
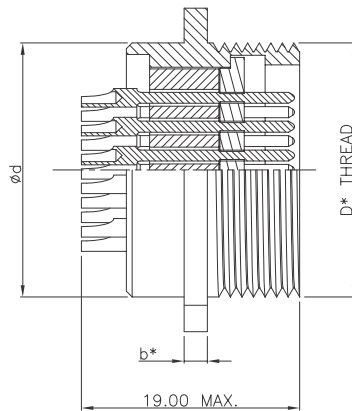
Series PPC 3,4 & 5

FIXED MALES OF PPC4 TYPE (HERMETICALLY SEALED CONNECTOR)



NO. OF CONTACT	ØD	THREAD D1*	THREAD D*	B
10	25	M14X0.75	M14X0.75	25
19	29	M18X1.00	M18X0.75	29
32	33	M22X1.00	M22X0.75	33
50	38	M27X1.00	M27X0.75	38

Fixed Males of PPC5 Type (Hermetically Sealed Connector)



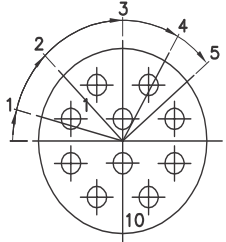
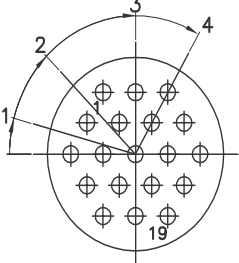
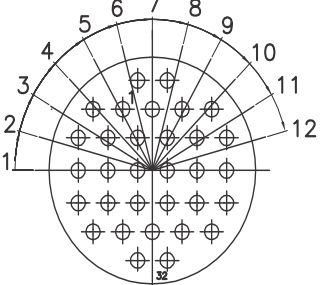
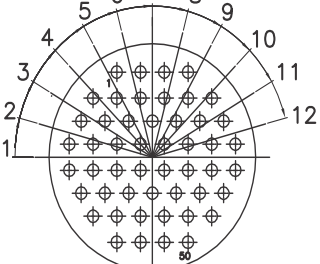
NO. OF CONTACT	Ød*	THREAD D*	Ød1	A	B	b
10	14	M14X0.75	2.2	15	20	1.8
19	18	M18X1.00	2.7	18	24	2
32	22	M22X1.00	2.7	21.5	28	2
50	27	M27X1.00	3.2	26	33	2

NOTE: 1) * DIMENSIONS ARE FOR REFERENCE ONLY.

Insert Arrangements

VIEW FOR SOCKET FROM THE MATING SIDE

Layout of contact and electro-mechanical parameters: Table - 1

Contact Layout	Number of contacts	Current carrying capability,			Insulator Orientation in Degrees											
		Operating current per contact, A	Max operating current per contact, A	Max total current per connector, A	1	2	3	4	5	6	7	8	9	10	11	12
	10	1.5	2	15	15	45	90	120	140	–	–	–	–	–	–	–
	19	1.1	2	20	15	45	90	120	–	–	–	–	–	–	–	–
	32	0.9	2	28	0	15	30	45	60	75	90	105	120	135	150	165
	50	0.7	2	35	0	15	30	45	60	75	90	105	120	135	150	165

CONNECTOR DESIGNATION & ORDERING INFORMATION

<u>Russian</u> ---> <u>PPC3, 4, 5</u>	<u>10</u>	<u>A</u>	<u>1</u>	<u>1...12</u>	<u>B/☺</u>
<u>English</u> ---> <u>RRS3,4,5</u>	<u>10</u>	<u>A</u>	<u>1</u>	<u>1...12</u>	<u>V/E</u>
Series					
Number of Contacts (10, 19, 32, 50)					
Contact Plating: A-gold for socket contact Nickel (If A is absent) for pin contact					
Connector Types: 1 - fixed male, connector without accessories 0 - cable female, connector without accessories 7 - cable female, connector with straight-type accessories 9 - cable female, connector with angle-type accessories P- adapter					
Insulator orientation ref. table -1					
B - All climatic conditions / ☺ - For cold climatic conditions					

TECHNICAL DATA:

a) Contact resistance	:- 70 m Ohms Max.
b) Insulation resistance under normal climatic conditions	:- ≥ 5000 M Ohms
c) Contact Dia	:- 1.00 mm
d) Operating Voltage	:- 200 V peak
e) Temperature	:- -60°C to $+100^{\circ}\text{C}$
f) Helium Leak rate	:- 1.316×10^{-8} Std cc/sec at 2bar pressure. (PPC4 & 5 series connector)

A) Material :-

1. Insulator	:- Hard Dielectric for Socket and Glass for Pin Connector
2. Socket contact	:- Beryllium copper
3. Pin contact	:- Alloy - 52
4. Plug Shell	:- Aluminium Alloy
5. Receptacle shell	:- Stainless steel
5. Gasket	:- Silicon Rubber

B) Finish

1. Pin Contact	:- Nickel
2. Socket Contact	:- Gold
3. Receptacle Shell	:- Nickel
4. Plug shell	:- Cadmium Plated with Olive Drab Passivation or Anodic Oxidation

Series MPI

MP1 PLUG & SOCKET

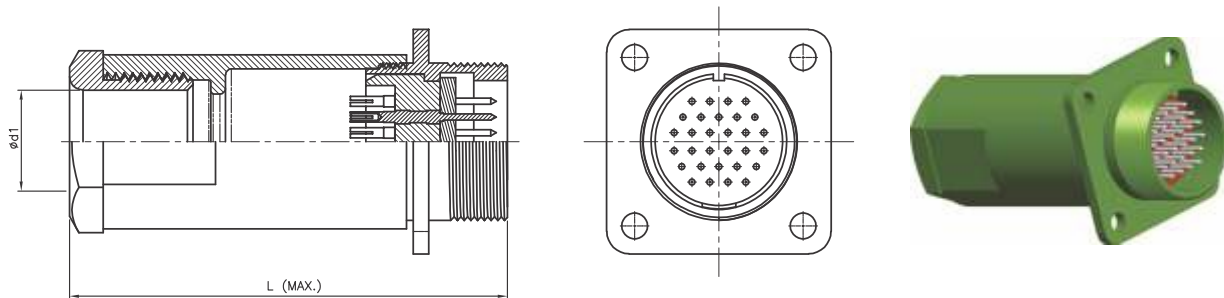


MP1 PLUG

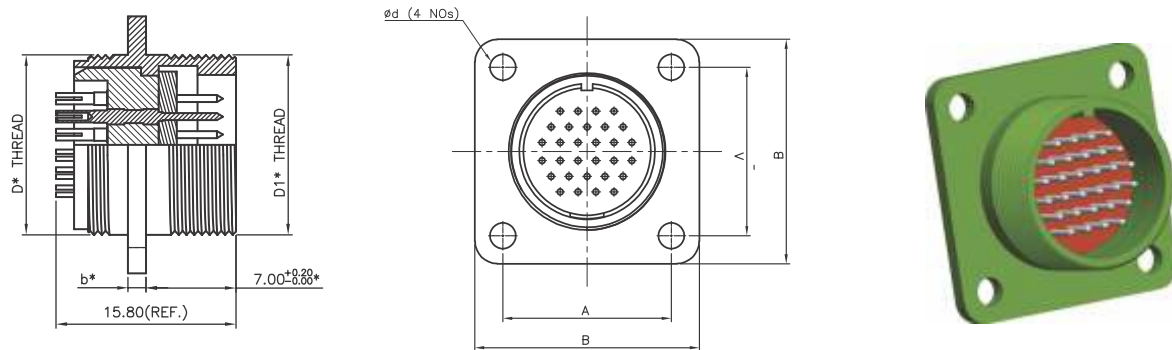


MP1 SOCKET

Connector With Accessories



Plug Connector Without Accessories

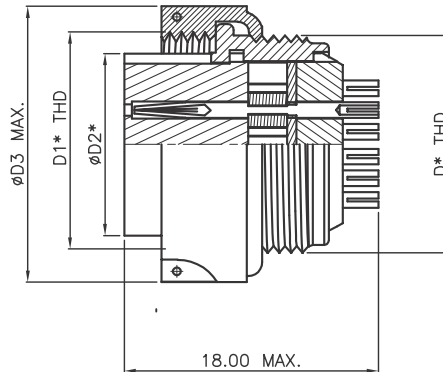
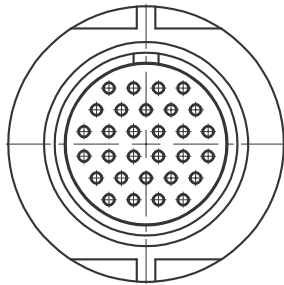
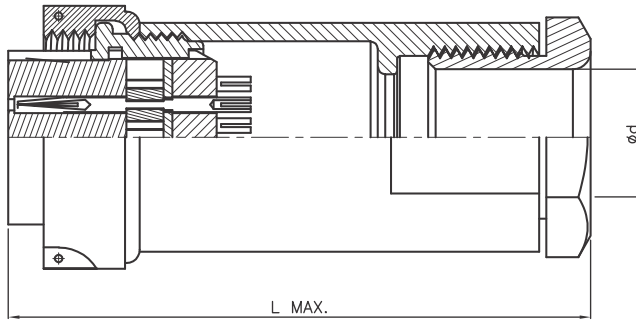
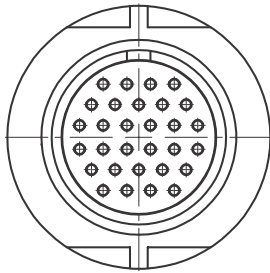


Connector Part No.	D* Thread	D1* Thread	A	B	b*	ϕd	$\phi d1$	L MAX.
MP1 - 10 - 1 - B	M10X0.75		11.8	16.5	1.4	2.2	6.0	36.0
MP1 - 19 - 1 - B	M12X0.75		13.2	18.0			8.0	38.0
MP1 - 30 - 1 - B	M14X0.75		15.0	20.0			9.0	41.0
MP1 - 50 - 1 - B	M18X0.75	M18X1	18.0	24.0			11.0	43.0
MP1 - 76 - 1 - B	M22X0.75	M22x1	21.5	28.0	1.8	2.7	13.0	45.0
MP1 - 102 - 1 - B	M27X0.75	M27x1	26.0	33.0	2	3.2	16.0	48.0

NOTE: 1) *DIMENSIONS ARE FOR REFERENCE ONLY.

ALL DIMENSIONS ARE IN MM

SOCKET CONNECTOR WITH ACCESSORIES



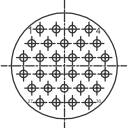
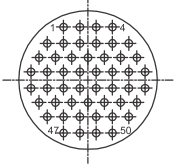
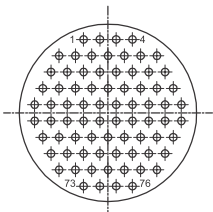
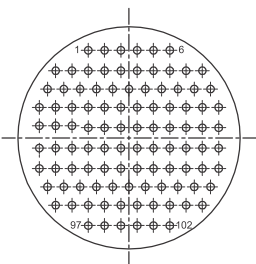
Connector Part No.	D* Thread	D1* Thread	øD2*	øD3,Max	ød	L MAX.
MP1 - 10 - 5 - B	M10X0.75		7.9	14.0	6.0	36.0
MP1 - 10 - 6 - B						
MP1 - 19 - 5 - B	M12X0.75		9.7	16.0	8.0	38.0
MP1 - 19 - 6 - B						
MP1 - 30 - 5 - B	M14X0.75		11.7	18.0	9.0	41.0
MP1 - 30 - 6 - B						
MP1 - 50 - 5 - B	M18X0.75	M18X1	15.2	22.5	11.0	43.0
MP1 - 50 - 6 - B						
MP1 - 76 - 5 - B	M22X0.75	M22x1	19.25	26.5	13.0	45.0
MP1 - 76 - 6 - B						
MP1 - 102 - 5 - B	M27X0.75	M27x1	23.7	31.5	16.0	48.0
MP1 - 102 - 6 - B						

ALL DIMENSIONS ARE IN MM

Insert Arrangements

VIEW FOR SOCKET FROM THE MATING SIDE

Contact Layout and Electro-Mechanical Parameters: Table -1

Conventional shell size	Contact Layout	Number of contacts	Operating current per contact, A	Maximum current load capability, A	
				per contact	total per connector
1	2	3	4	5	6
10		10	0.5	3	5
12		19	0.5	3	9.5
14		30	0.5	3	15
18		50	0.5	3	25
22		76	0.5	3	38
27		102	0.5	3	51

Connectors Designation

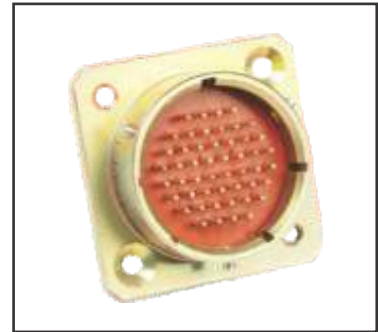
CONNECTOR DESIGNATION & ORDERING INFORMATION

English	MR1	- 10	-5	V	
Russian	MP1	- 10	-5	B	AO
Series					
Number of Contacts (10, 19, 30, 50, 76, 102)					
Connector Type:					
1. fixed male, threaded coupling, silver plated contact 2. fixed male, threaded coupling, gold plated contact 3. fixed male, cut-in mating, silver plated contact 4. fixed male, cut-in mating gold plated contact 5. free female, threaded coupling, silver plated contact 6. free female, threaded coupling, gold plated contact 7. free female, cut-in mating with silver plated contact 8. fixed female cut-in mating with gold plated contact					
Designed for all climatic conditions					
Anodic Oxidation					

Technical Data

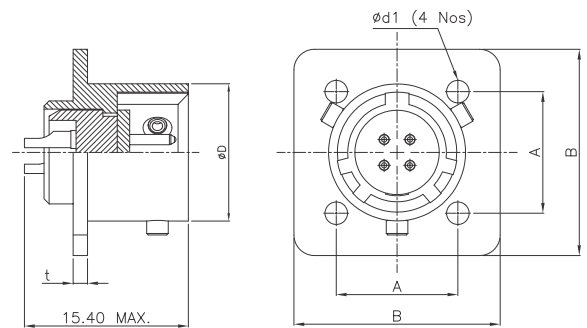
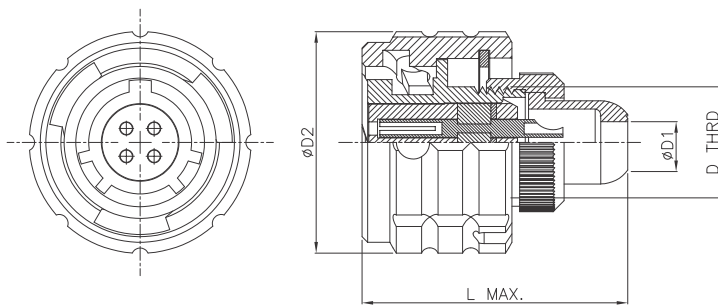
A) Contact resistance	:- ≤10 m Ohms
B) Insulation resistance under normal climatic conditions	:- ≥1000 M Ohms
C) Current capability	:- SEE TABLE 1
D) Operating Voltage	:- 150 V peak
E) Contact Mating Diameter	:- Ø0.60 mm
F) Number of mate-unmate operation	:- 250
G) Material	
1. Insulator	:- Hard Dielectric
2. Socket contact	:- Beryllium copper
3. Pin contact	:- Brass
4. Shell	:- Aluminium Alloy
5. Gasket	:- Silicon Rubber
H) Finish	
a. Contact	:- Silver/Gold Plated
b. Shell	:- Cadmium Plated with Olive Drab Passivation or Anodic Oxidation

ОНЦ-БС1 SERIES (ONTS-BS1)



ONTS-BS1 Socket Connector

ONTS-BS1 Plug Connector



SHELL SIZE	D THRD	$\phi D1$	$\phi D2$	L MAX.
10	M10X0.75	4.5	20	30
12	M12X0.75	6.0	21	31
14	M14X0.75	7.0	24	32
18	M18X1.00	9.2	27	33
22	M22X1.00	11.0	31	34
27	M27X1.00	13.0	36	36

SHELL SIZE	ϕD	$\phi d1$	A	B	t
10	13.3	2.2	11.8	20	1.4
12	14.8	2.2	13.2	21	1.4
14	16.8	2.2	15.0	24	1.4
18	20.0	2.2	18.0	27	1.4
22	24.0	2.7	21.5	31	1.8
27	29.0	3.2	26.0	36	2.0

Connector Designation And Ordering Information

Russian	ОНЦ-БС	1(2)	-10/	10-	B(P)	1(12)	1(2-20)	B
English	ONTS-BS	1(2)	-10/	10-	V(R)	1(12)	1(2-20)	V
Series								
Contact Plating 1- Silver 2- Gold								
Number of Contact								
Conventional Shell Size								
Connector Type: V- male, R- female								
Design : 1- Fixed part without outer shell 12- cable half with unshielded straight outer shell								
Multipositional polarization								
All climatic condition design								

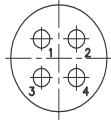
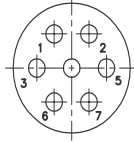
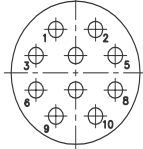
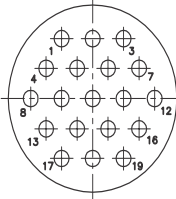
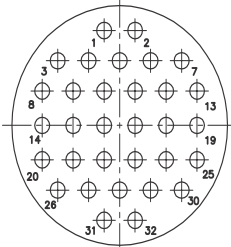
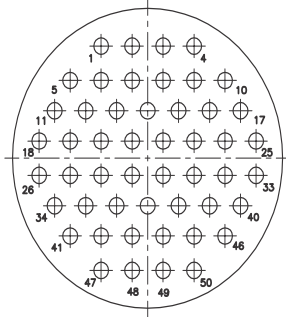
Technical Data

A) Operating Temperature	:- -55° c to +125° c
B) Operating Voltage (at sea level)	:- 500 V AC (rms) Max
C) Operating Current	:- 7A
Contact Dia	:- 1.00 mm
D) Insulation Resistance	:- ≥1000 M ohms (Minimum)
E) Contact Resistance	:- ≤5 m ohms
F) Material	
1. Insulator	:- Hard Dielectric
2. Socket contact	:- Beryllium copper
3. Pin contact	:- Brass
4. Shell/Nut	:- Aluminium Alloy
5. Gasket	:- Silicon Rubber
G) Finish	
a. Contact	:- Silver/Gold Plated
b. Shell	:- Cadmium Plated with Yellow Passivation or Anodic Oxidation

Insert Arrangements

VIEW FOR SOCKET FROM THE MATING SIDE

Contact Layout And Electro-Mechanical Parameters: Table-1

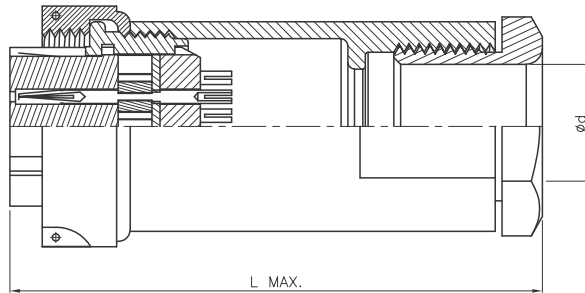
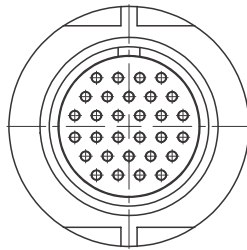
Conventional shell size	Contact Layout	Contact Diameter in mm	Numbers of contacts for measuring the over heat temperature.	Total No. of Contact	Current Load, A max			Separation force of connector N(kgf)	Operational Voltage (amplitude value) V, max		Rotation torque of shell in N-m (kgf-m)
					Total current load on connector	Max. operating current on single contact	operating current on each contact		In normal climatic condition	At low atmospheric pressure	
10		1.0	ANY	4	15		3.7	21.6(2.2)	250	150	39.2 (4)*
12			4	7	22		3.1	36.8(3.75)			58.4 (6)*
14			4(7)	10	30		3	53(5.4)			76 (8)*
18			10	19	40	7	2.1	103(10.5)			98 (10)
22			16(17)	32	60		1.8	170(17.4)			127 (13)*
27			22(30)	50	75		1.5	265(27)			147 (15)*

Series SNTS 13, 14

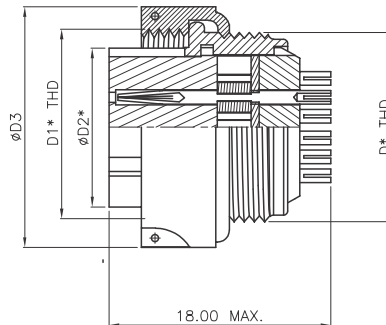
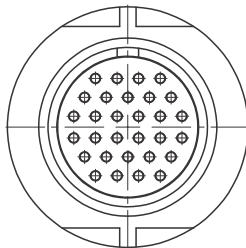
CHL 13, 14 SERIES (SNTS13, 14)



SNTS-13 Socket Connector With Accessories



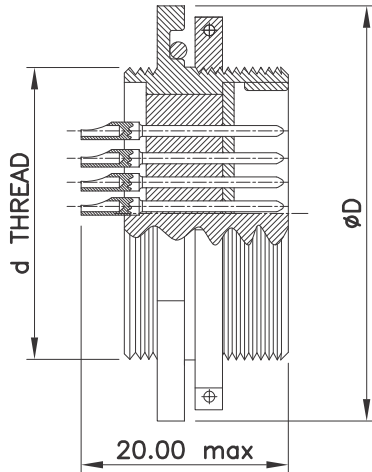
SNTS-13 Socket Connector Without Accessories



SHELL SIZE	D* Thread	D1* Thread	øD2*	øD3	ød	L MAX.
10	M10X0.75		7.9	14.0	6.0	36.0
12	M12X0.75		9.7	16.0	8.0	38.0
14	M14X0.75		11.7	18.0	9.0	41.0
18	M18X0.75	M18X1	15.2	22.5	11.0	43.0
22	M22X0.75	M22x1	19.25	26.5	13.0	45.0
27	M27X0.75	M27x1	23.7	31.5	16.0	48.0

ALL DIMENSIONS ARE IN MM

SNTS-14 PLUG CONNECTOR



Conventional Shell Size	ØD	D1 THREAD
10	22	M10X0.75
12	24	M12X0.75
14	25	M14X0.75
18	29	M18X0.75
22	33	M22X0.75
27	38	M27X0.75

Connector Designation & Ordering Information

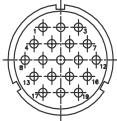
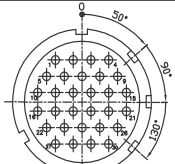
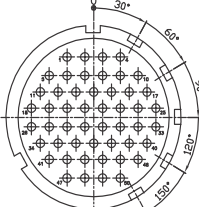
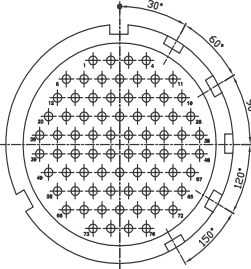
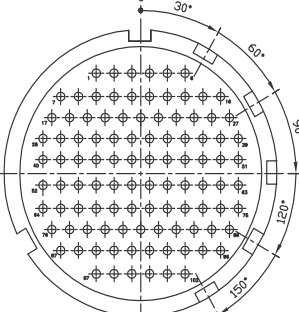
Russian	CHL13,14	10	B(P)	1(2,6)	a(б,в,г,д,е)	B
English	SNTS13, 14	10	V(R)	1(2,6)	a(b,v,g,d,e)	V
Series						
Number of contacts (10, 19, 30, 50, 76, 102)						
V = Male contact R = Female Contact						
Connector types :- 1 - fixed male connector without outer shell 2 - Fixed male with straight outer shell 3 - Female connector with straight - type outer shell						
Variant of angled position of polarization keys on insulators						
All climatic conditions						

ALL DIMENSIONS ARE IN MM

Insert Arrangements

VIEW FOR SOCKET FROM THE MATING SIDE

Contact Layout And Electro-Mechanical Parameters: Table -1

Conventional shell size	Contact Layout	Contact Diameter in mm	Total No. of Contacts	Quantity of Contacts Loaded by Max. Current	Number of Contacts Loaded by Max. Current	Numbers of Contacts for measuring the temp. of overheating	Operating current to each contact	Max. current to the single contact	To each of the remaining contact with the peak load on the single contact	Mx. summary current load on the connector	Partition force of connectors. N(Kgf)
10		0.6	10	4	1,5,6,10	4 (7)	1	2	0.3	10	19,6(2)
12			19	6	1,3,8,12,17,19	10 (14)	1.05		0.6	20	39.2 (4)
14			30	7	1,4,10,15,22,26,28	12 (13)	1		0.7	30	58.8(6)
18			50	8	1,4,11,17,34,40,47,50	21 (22)	0.8		0.57	40	88.2(9)
22			76	9	5,11,20,28,39,48,58,65,74	33 (34)	0.72		0.55	55	117,6(12)
27			102	10	16,17,27,40,51,64,75,87,96	46 (47)	0.78		0.65	60	147(15)

TECHNICAL DATA:

a) Contact resistance	70 m Ohms Max
b) Insulation resistance under normal climatic conditions	≥ 5000 M Ohms
c) Contact dia	0.60 mm
d) Operating voltage	140 V peak
e) Helium Leak rate	1.32×10^{-10} Std. cc/sec at 3bar pressure. (SNTS 14 series connectors)

A) Material

1. Insulator	: Hard Dielectric for Socket and Glass for Pin
2. Socket contact	: Beryllium copper
3. Pin contact	: Alloy-52
4. Plug Shell	: Aluminium Alloy
5. Receptacle Shell	: Stainless steel
6. Gasket	: Silicon Rubber

B) Finish

1. Pin Contact	: Nickel
2. Socket Contact	: Gold
3. Receptacle Shell	: Nickel
4. Plug Shell	: Cadmium Plated with Yellow Passivation or Anodic Oxidation

SNTS 23 Series



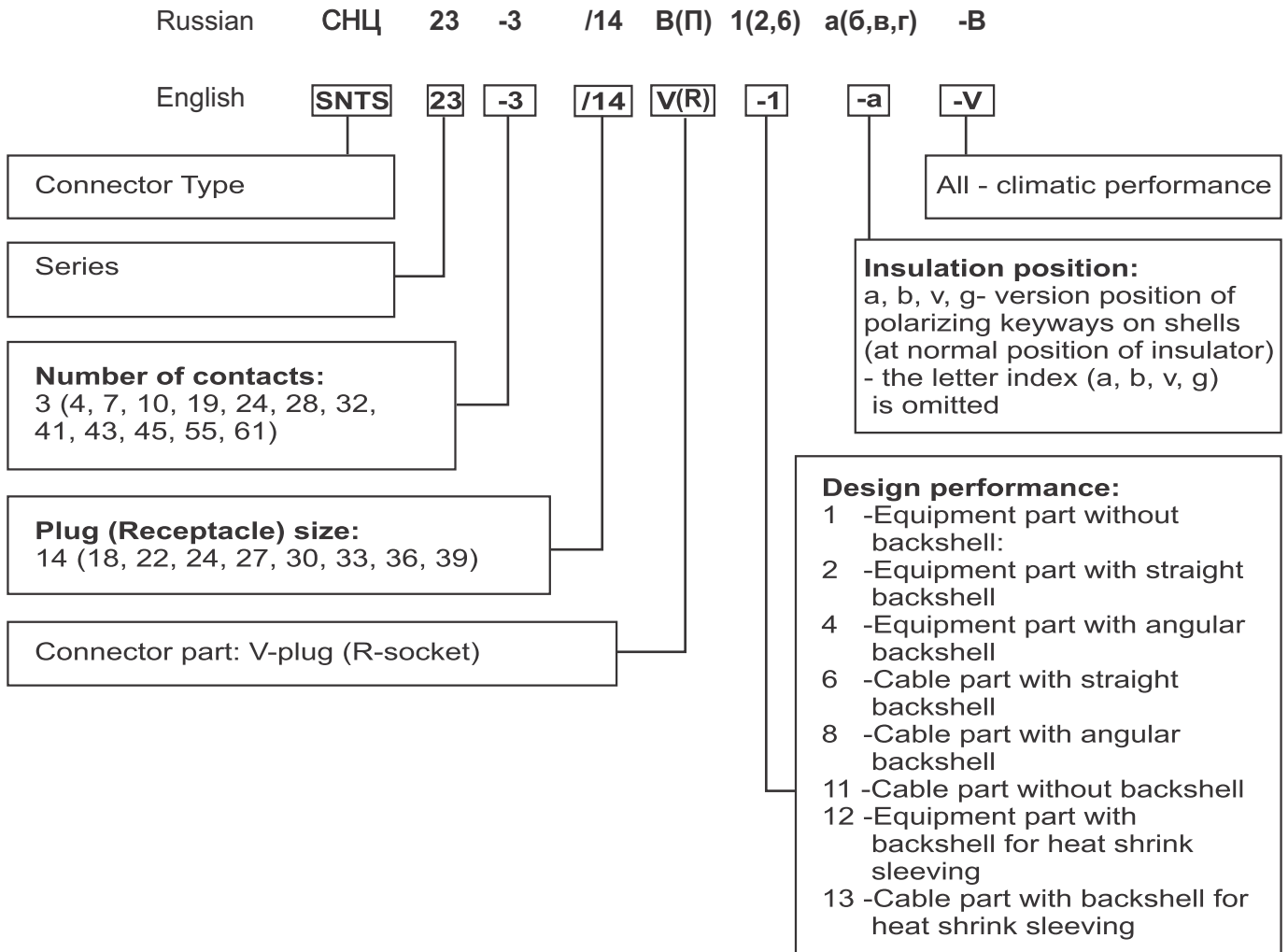
These connectors are multi-positional having 5 key positions with different insert orientations. They are field serviceable having crimp contacts and are intended for use in electrical circuits of direct, alternating (3MHz max) and pulse currents at voltages up to 700V max. The Plugs and receptacles are manufactured without backshells, with straight backshells, with angular backshells or with backshells for heatshrink sleeving.

Technical Characteristics

1. Contact resistance:	contact dia. 1.0mm contact dia. 1.5mm contact dia. 2.0mm	4.0m Ohms max 2.5m Ohms max 1.6m Ohms max
2. Insulation resistance:		5000M Ohms min
3. Max. operating current per each contact:	contact dia. 1.0mm contact dia. 1.5mm contact dia. 2.0mm	3.6A-9.5A 90A-15A 14 A
4. Max. current per single contact:	contact dia. 1.0mm contact dia. 1.5mm contact dia. 2.0mm	11.0A 20.0A 35.0A
9. Max. operating voltage of direct current or amplitude value of voltage of alternate current:	SNTS23-3/14, 4/14, 7/22,19/24, 32/33, 43/36, 45/39	700v
	SNTS23-7/18,10/22, 28/27, 24/30	500v
	SNTS23-10/18, 19/22, 32/27,19/27, 41/30, 55/33, 61/36	400v
6. Contact plating	Gold/Silver	

Connectors Designation

ORDERING INFORMATION



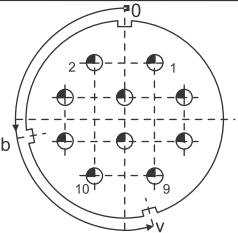
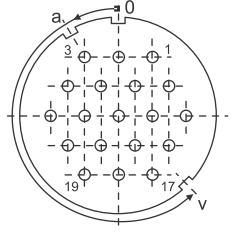
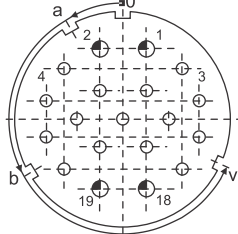
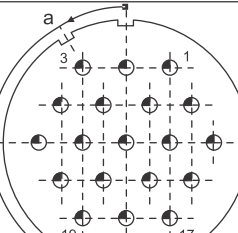
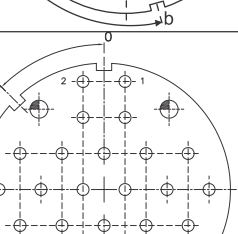
Insert Arrangements

CONTACT LAYOUT AND ELECTRO-MECHANICAL PARAMETERS

Plug (Receptacle) size	Contact arrangement in insulation as viewed from mounting face of receptacles	Designation of contact	Contact diameter, mm	Number of contacts	Rotation angle of insulator in relation to normal position (in degree) for position					Operating current per each contact, A	Max. permissible short-term current per contact, A
					Normal position	a	b	v	g		
1	2	3	4	5	6	7	8	9	10	11	12
14			1.5	3	0	160	-	-	-	15,0	30,0
			1.0	4	0	-	135	-	-	9,5	19,0
18			1.5	7	0	90	-	-	-	12,0	24,0
			1.0	10	0	-	70	-	-	7,5	15,0
22			1.5	4	0	80	170	225	-	9,0	18,0
			2,0	3						9,0	18,0

Insert Arrangements

CONTACT LAYOUT AND ELECTRO-MECHANICAL PARAMETERS

Plug (Receptacle) size	Contact arrangement in insulation as viewed from mounting face of receptacles	Designation of contact	Contact diameter, mm	Number of contacts	Rotation angle of insulator in relation to normal position (in degree) for position					Operating current per each contact, A	Max. permissible short-term current per contact, A
					Normal position	a	b	v	g		
1	2	3	4	5	6	7	8	9	10	11	12
22			1.5	10	0	-	100	195	-	9,0	18,0
			1.0	19	0	30	-	225	-	5,0	10,0
24			1.0	15	0	30	120	245	-	5,0	10,0
			1.5	4						9,0	18,0
27			1.5	19	0	30	195	-	-	9,0	18,0
			1.0	24	0	45	150	195	-	5,0	10,0
			1,5	4						9,0	18,0

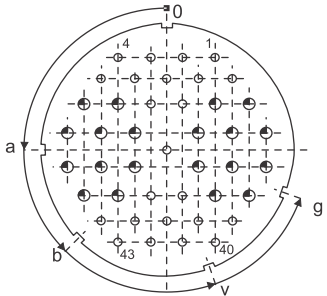
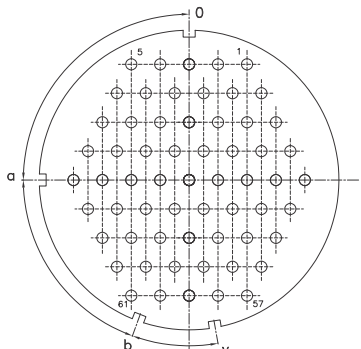
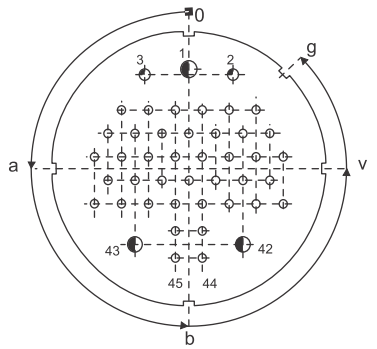
Insert Arrangements

CONTACT LAYOUT AND ELECTRO-MECHANICAL PARAMETERS

Plug (Receptacle) size	Contact arrangement in insulation as viewed from mounting face of receptacles	Designation of contact	Contact diameter, mm	Number of contacts	Rotation angle of insulator in relation to normal position (in degree) for position					Operating current per each contact, A	Max. permissible short-term current per contact, A
					Normal position	a	b	v	g		
1	2	3	4	5	6	7	8	9	10	11	12
27		⊕	1.0	32	0	45	135	-	270	5,0	10,0
30		⊗	1.5	24	0	90	135	200	-	9,0	18,0
		⊕	1.0	41	0	45	90	-	-	5,0	10,0
33		⊕	1.0	26	0	90	120	-	-	5,0	10,0
		⊗	2.0	6						14,0	28,0
		⊕	1.0	55	0	75	90	-	165	5,0	10,0

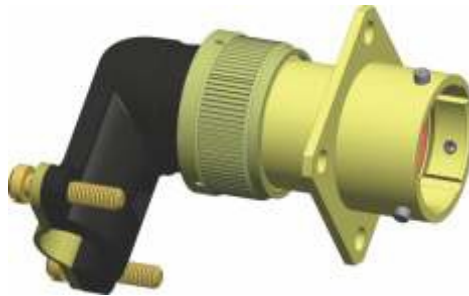
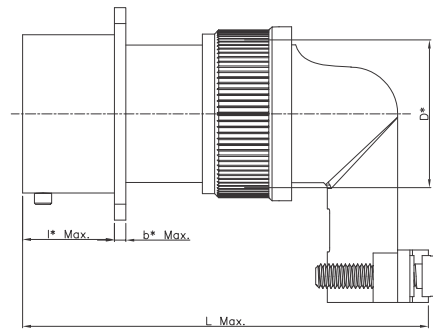
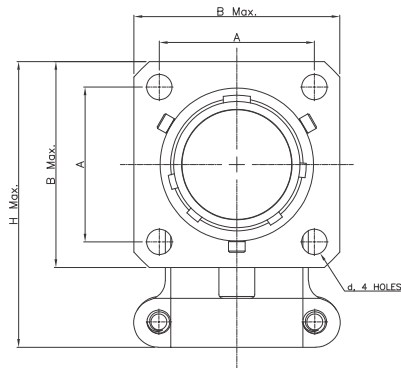
Insert Arrangements

CONTACT LAYOUT AND ELECTRO-MECHANICAL PARAMETERS

Plug (Receptacle) size	Contact arrangement in insulation as viewed from mounting face of receptacles	Designation of contact	Contact diameter, mm	Number of contacts	Rotation angle of insulator in relation to normal position (in degree) for position					Operating current per each contact, A	Max. permissible short-term current per contact, A
					Normal position	a	b	v	g		
1	2	3	4	5	6	7	8	9	10	11	12
36		⊕	1.0	23	0	90	135	200	250	5,0	10,0
		⊗	1.5	20						9,0	18,0
		⊕	1.0	61	0	90	160	190	-	5,0	10,0
39		⊕	1.0	40	0	90	180	270	315	5,0	10,0
		⊗	1.5	2						9,0	18,0
		⊗	2.0	3						14,0	28,0

Receptacle

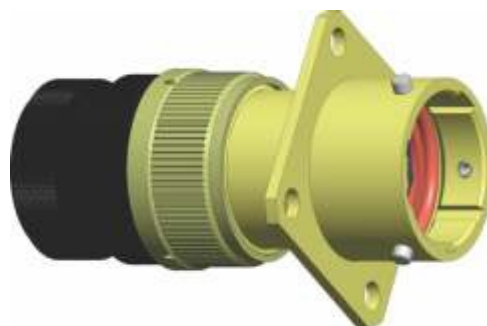
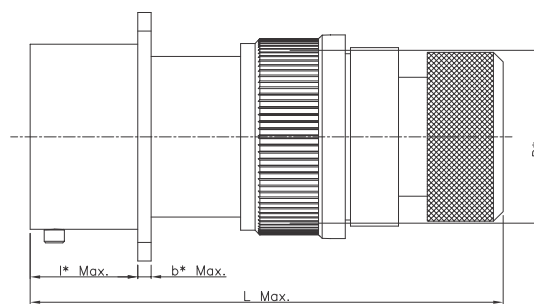
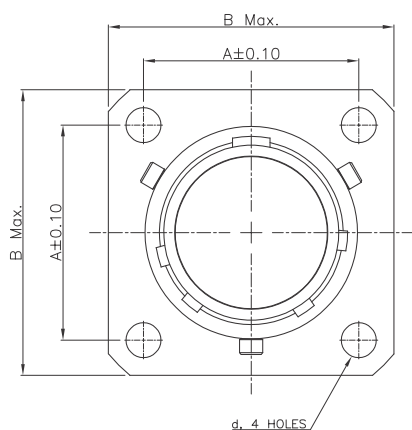
APPEARANCE, OVERALL, MOUNTING AND ATTACHING DIMENSIONS EQUIPMENT PLUG (RECEPTACLE) WITH ANGULAR BACKSHELL



SL No.	Connector Part No.	Dimensions, mm							
		A	B Max.	D*	d	I* Max.	b* Max.	H Max.	L Max.
1	A SNTS23-4/14V(R)-4-V	16.5	21.7	M14x0.5	2.2	11.3	1.4	33	48
2	A SNTS23-3/14V(R)-4-V								
3	A SNTS23-10/18V(R)-4-V	19.5	25.9	M18x1			36	51	
4	A SNTS23-7/18V(R)-4-V								
5	A SNTS23-19/22V(R)-4-V	23	29.4	M22x1			1.8	40	55
6	A SNTS23-10/22V(R)-4-V								
7	A SNTS23-7/22V(R)-4-V								
8	A SNTS23-19/24V(R)-4-V	25	31.4	M24x1				42	57
9	A SNTS23-32/27V(R)-4-V	27	33.4	M27x1	3.2				45
10	A SNTS23-19/27V(R)-4-V								
11	A SNTS23-28/27V(R)-4-V								
12	A SNTS23-41/30V(R)-4-V	31	37.8	M30x1				49	63
13	A SNTS23-24/30V(R)-4-V								
14	A SNTS23-55/33V(R)-4-V	34	41.5	M33x1			14.5	52	68
15	A SNTS23-32/33V(R)-4-V								
16	A SNTS23-61/36V(R)-4-V	36.5	44.5	M36x1	15.3	2	55	70	
17	A SNTS23-43/36V(R)-4-V								
18	A SNTS23-45/39V(R)-4-V	40	46.4	M39x1					57

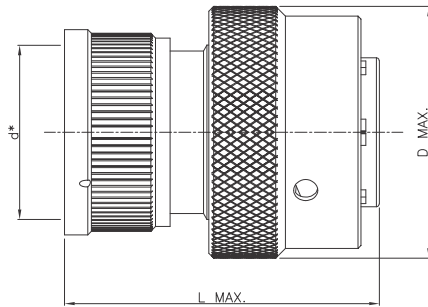
Receptacle

EQUIPMENT PLUG (RECEPTACLE) WITH BACKSHELL FOR HEAT SHRINK SLEEVING

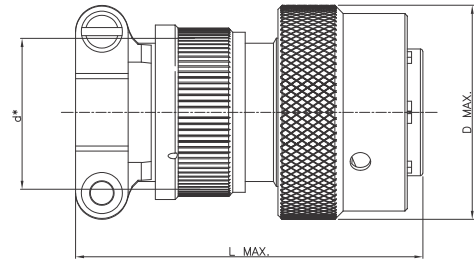


SL No.	Connector Part No.	Dimensions, mm						
		A	B Max.	D*	d	I* Max.	b* Max.	L Max.
1	A SNTS23-4/14V(R)-12-V	16.5	21.7	M14x0.5	2.2	11.3	1.4	50
2	A SNTS23-3/14V(R)-12-V							
3	A SNTS23-10/18V(R)-12-V	19.5	25.9	M18x1	3.2		1.8	
4	A SNTS23-7/18V(R)-12-V							
5	A SNTS23-19/22V(R)-12-V	23	29.4	M22x1				
6	A SNTS23-10/22V(R)-12-V							
7	A SNTS23-7/22V(R)-12-V							
8	A SNTS23-19/24V(R)-12-V	25	31.4	M24x1				
9	A SNTS23-32/27V(R)-12-V	27	33.4	M27x1				
10	A SNTS23-19/27V(R)-12-V							
11	A SNTS23-28/27V(R)-12-V							
12	A SNTS23-41/30V(R)-12-V	31	37.8	M30x1				
13	A SNTS23-24/30V(R)-12-V							
14	A SNTS23-55/33V(R)-12-V	34	41.5	M33x1		14.5		2
15	A SNTS23-32/33V(R)-12-V							
16	A SNTS23-61/36V(R)-12-V	36.5	44.5	M36x1		15.3		
17	A SNTS23-43/36V(R)-12-V							
18	A SNTS23-45/39V(R)-12-V	40	46.4	M39x1				

CABLE PLUG (RECEPTACLE)



CABLE PLUG (RECEPTACLE) WITH STRAIGHT BACKSHELL

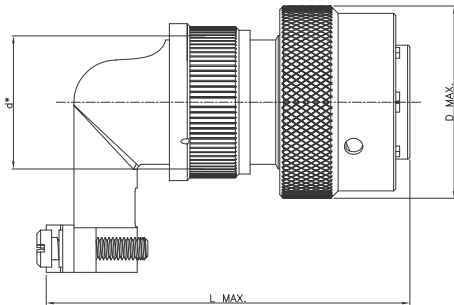


SL. No.	Connector Part No.	Dimensions, mm		
		D Max.	d*	L* Max.
1	A SNTS23-4/14V(R)-11-V	22	M14x0.5	32
2	A SNTS23-3/14V(R)-11-V			
3	A SNTS23-10/18V(R)-11-V	26	M18x1	
4	A SNTS23-7/18V(R)-11-V			
5	A SNTS23-19/22V(R)-11-V	29.5	M22x1	
6	A SNTS23-10/22V(R)-11-V			
7	A SNTS23-7/22V(R)-11-V			
8	A SNTS23-19/24V(R)-11-V	32	M24x1	
9	A SNTS23-32/27V(R)-11-V	35	M27x1	
10	A SNTS23-19/27V(R)-11-V			
11	A SNTS23-28/27V(R)-11-V			
12	A SNTS23-41/30V(R)-11-V	38	M30x1	
13	A SNTS23-24/30V(R)-11-V			
14	A SNTS23-55/33V(R)-11-V	42	M33x1	34
15	A SNTS23-32/33V(R)-11-V			
16	A SNTS23-61/36V(R)-11-V	46	M36x1	
17	A SNTS23-43/36V(R)-11-V			
18	A SNTS23-45/39V(R)-11-V	49	M39x1	

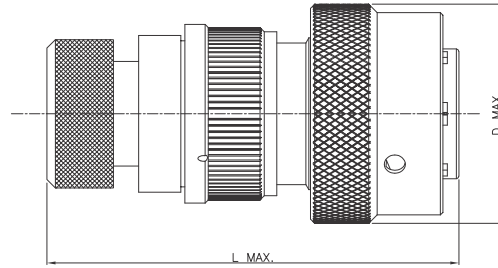
SL. No.	Connector Part No.	Dimensions, mm		
		D Max.	d*	L * Max.
1	A SNTS23-4/14V(R)-6-V	22	M14x0.5	42
2	A SNTS23-3/14V(R)-6-V			
3	A SNTS23-10/18V(R)-6-V	26	M18x1	
4	A SNTS23-7/18V(R)-6-V			
5	A SNTS23-19/22V(R)-6-V	29.5	M22x1	48
6	A SNTS23-10/22V(R)-6-V			
7	A SNTS23-7/22V(R)-6-V			
8	A SNTS23-19/24V(R)-6-V	32	M24x1	
9	A SNTS23-32/27V(R)-6-V	35	M27x1	
10	A SNTS23-19/27V(R)-6-V			
11	A SNTS23-28/27V(R)-6-V			
12	A SNTS23-41/30V(R)-6-V	38	M30x1	50
13	A SNTS23-24/30V(R)-6-V			
14	A SNTS23-55/33V(R)-6-V	42	M33x1	
15	A SNTS23-32/33V(R)-6-V			
16	A SNTS23-61/36V(R)-6-V	46	M36x1	
17	A SNTS23-43/36V(R)-6-V			
18	A SNTS23-45/39V(R)-6-V	49	M39x1	



CABLE PLUG (RECEPTACLE) WITH ANGULAR BACKSHELL



CABLE PLUG (RECEPTACLE) WITH BACKSHELL FOR HEAT SLEEVING



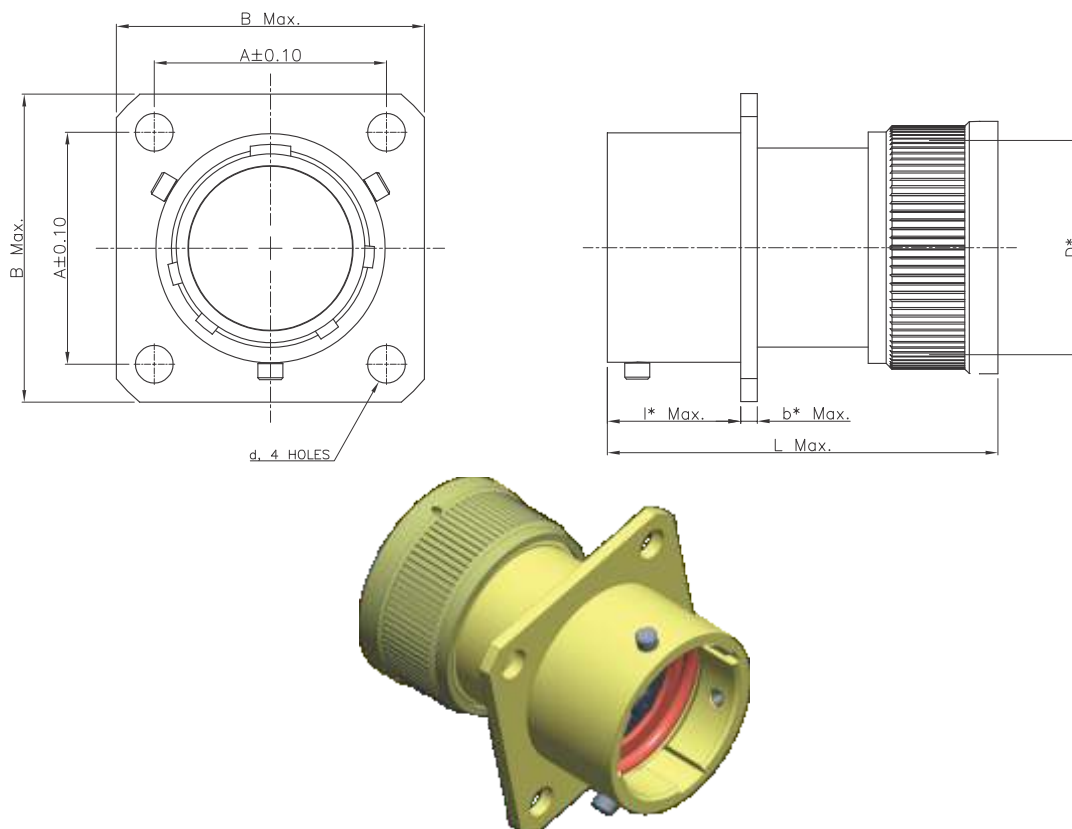
SL. No.	Connector Part No.	Dimensions, mm			
		D Max.	d*	H Max	L* Max.
1	A SNTS23-4/14V(R)-8-V	22	M14x0.5	32	48
2	A SNTS23-3/14V(R)-8-V				
3	A SNTS23-10/18V(R)-8-V	26	M18x1	36	51
4	A SNTS23-7/18V(R)-8-V				
5	A SNTS23-19/22V(R)-8-V	29.5	M22x1	40	55
6	A SNTS23-10/22V(R)-8-V				
7	A SNTS23-7/22V(R)-8-V				
8	A SNTS23-19/24V(R)-8-V	32	M24x1	42	57
9	A SNTS23-32/27V(R)-8-V	35	M27x1	45	60
10	A SNTS23-19/27V(R)-8-V				
11	A SNTS23-28/27V(R)-8-V				
12	A SNTS23-41/30V(R)-8-V	38	M30x1	50	63
13	A SNTS23-24/30V(R)-8-V				
14	A SNTS23-55/33V(R)-8-V	42	M33x1	53	68
15	A SNTS23-32/33V(R)-8-V				
16	A SNTS23-61/36V(R)-8-V	46	M36x1	57	70
17	A SNTS23-43/36V(R)-8-V				
18	A SNTS23-45/39V(R)-8-V	49	M39x1	60	73

SL. No.	Connector Part No.	Dimensions, mm		
		D Max.	d*	L* Max.
1	A SNTS23-4/14V(R)-13-V	22	M14x0.5	50
2	A SNTS23-3/14V(R)-13-V			
3	A SNTS23-10/18V(R)-13-V	26	M18x1	
4	A SNTS23-7/18V(R)-13-V			
5	A SNTS23-19/22V(R)-13-V	29.5	M22x1	
6	A SNTS23-10/22V(R)-13-V			
7	A SNTS23-7/22V(R)-13-V			
8	A SNTS23-19/24V(R)-13-V	32	M24x1	
9	A SNTS23-32/27V(R)-13-V	35	M27x1	
10	A SNTS23-19/27V(R)-13-V			
11	A SNTS23-28/27V(R)-13-V			
12	A SNTS23-41/30V(R)-13-V	38	M30x1	
13	A SNTS23-24/30V(R)-13-V			
14	A SNTS23-55/33V(R)-13-V	42	M33x1	51
15	A SNTS23-32/33V(R)-13-V			
16	A SNTS23-61/36V(R)-13-V	46	M36x1	
17	A SNTS23-43/36V(R)-13-V			
18	A SNTS23-45/39V(R)-13-V	49	M39x1	



Receptacle

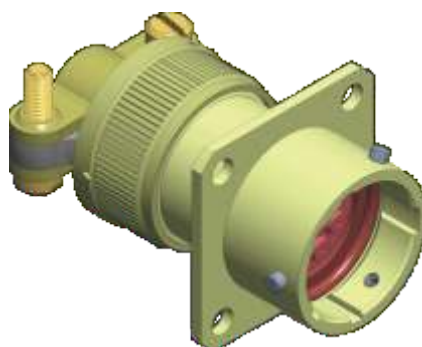
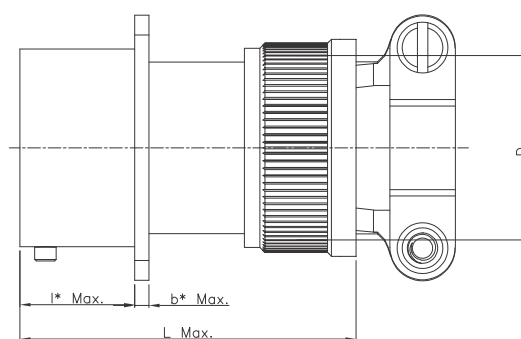
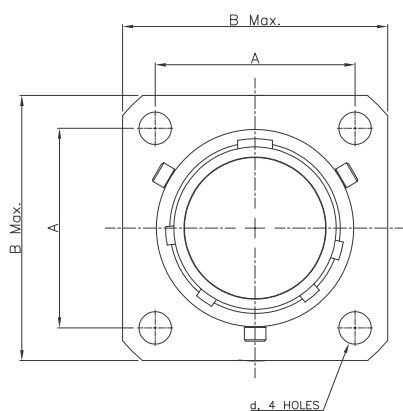
EQUIPMENT PLUG (RECEPTACLE)



SL No.	Connector Part No.	Dimensions, mm										
		A	B Max.	D*	d	l* Max.	b* Max.	L Max.				
1	A SNTS23-4/14V(R)-1-V	16.5	21.7	M14x0.5	2.2	11.3	1.4	32				
2	A SNTS23-3/14V(R)-1-V											
3	A SNTS23-10/18V(R)-1-V	19.5	25.9	M18x1	3.2		1.8					
4	A SNTS23-7/18V(R)-1-V											
5	A SNTS23-19/22V(R)-1-V	23	29.4	M22x1								
6	A SNTS23-10/22V(R)-1-V											
7	A SNTS23-7/22V(R)-1-V											
8	A SNTS23-19/24V(R)-1-V	25	31.4	M24x1								
9	A SNTS23-32/27V(R)-1-V	27	33.4	M27x1								
10	A SNTS23-19/27V(R)-1-V											
11	A SNTS23-28/27V(R)-1-V											
12	A SNTS23-41/30V(R)-1-V	31	37.8	M30x1								
13	A SNTS23-24/30V(R)-1-V											
14	A SNTS23-55/33V(R)-1-V	34	41.5	M33x1			14.5		2			
15	A SNTS23-32/33V(R)-1-V											
16	A SNTS23-61/36V(R)-1-V	36.5	44.5	M36x1			15.3				33	
17	A SNTS23-43/36V(R)-1-V											
18	A SNTS23-45/39V(R)-1-V			40								

Receptacle

EQUIPMENT PLUG (RECEPTACLE) WITH STRAIGHT BACKSHELL



SL No.	Connector Part No.	Dimensions, mm						
		A	B Max.	D*	d	I* Max.	b* Max.	L Max.
1	A SNTS23-4/14V(R)-2-V	16.5	21.7	M14x0.5	2.2	11.3	1.4	42
2	A SNTS23-3/14V(R)-2-V							
3	A SNTS23-10/18V(R)-2-V	19.5	25.9	M18x1	3.2			
4	A SNTS23-7/18V(R)-2-V							
5	A SNTS23-19/22V(R)-2-V	23	29.4	M22x1				
6	A SNTS23-10/22V(R)-2-V							
7	A SNTS23-7/22V(R)-2-V							
8	A SNTS23-19/24V(R)-2-V	25	31.4	M24x1				
9	A SNTS23-32/27V(R)-2-V	27	33.4	M27x1				
10	A SNTS23-19/27V(R)-2-V							
11	A SNTS23-28/27V(R)-2-V							
12	A SNTS23-41/30V(R)-2-V	31	37.8	M30x1				
13	A SNTS23-24/30V(R)-2-V							
14	A SNTS23-55/33V(R)-2-V	34	41.5	M33x1		14.5	2	50
15	A SNTS23-32/33V(R)-2-V							
16	A SNTS23-61/36V(R)-2-V	36.5	44.5	M36x1				
17	A SNTS23-43/36V(R)-2-V							
18	A SNTS23-45/39V(R)-2-V							



SNTS 127 : (CHЦ-127)

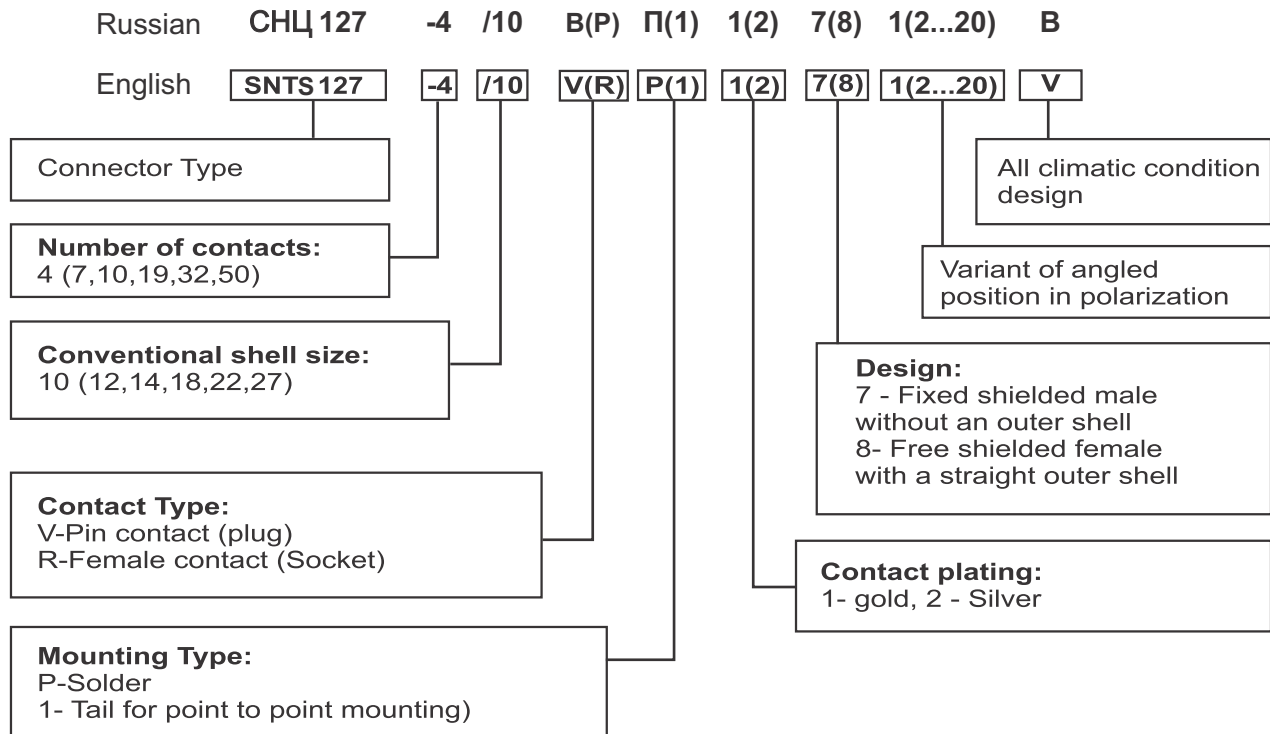
The connectors have 5 key positions for proper mating. These are non-removable and have solder pockets for wiring. The connectors are intended for use in electrical circuits of direct, alternating (3MHz) and pulse currents at voltages up to 250V max. The Plugs have straight backshell. The receptacles are sealed and shielded.

Technical Characteristics

1. Contact resistance	5m Ohms max
2. Insulation resistance	5000M Ohms
3. Contact dia	1.00 mm
4. Operating Current	7A
5. Shielding efficiency	33db min. at 100 MHZ 22db min. at 100 MHZ
6. Sealing	104 Pa
7. Contact plating	Gold/silver
8. Number of matings	250
9. Storage life	15 years

Connectors Designation

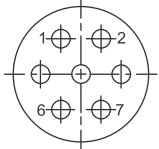
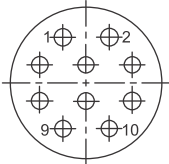
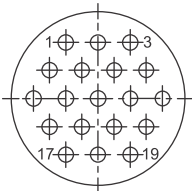
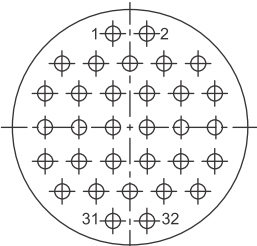
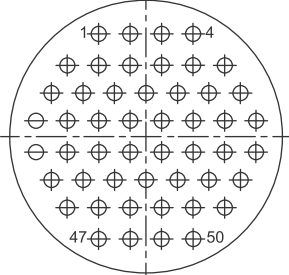
ORDERING INFORMATION



Insert Arrangements

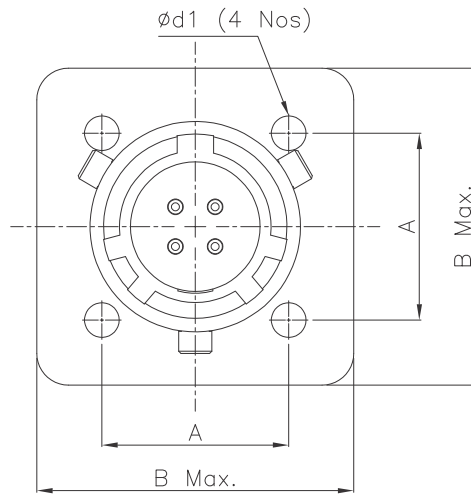
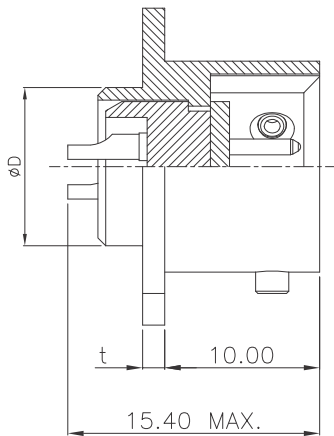
VIEW FOR SOCKET FROM THE MATING SIDE

CONTACT LAYOUT AND ELECTRO-MECHANICAL PARAMETERS

Conventional shell size	Contact layout	Number of contacts pcs.	Operating current per each contact, A	max current per contact, A
1	2	3	4	5
10		4	3.7	7
12		7	3.1	
14		10	3	
18		19	2.1	
22		32	1.8	
27		50	1.5	

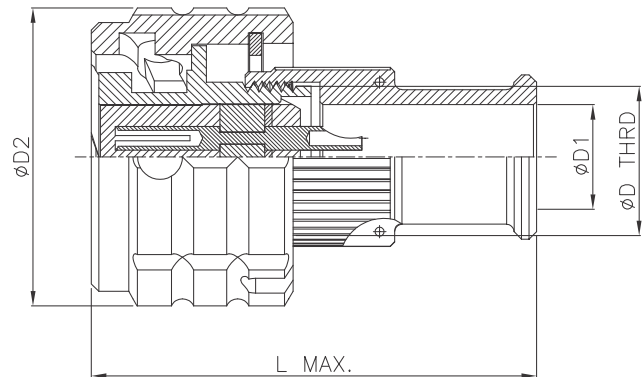
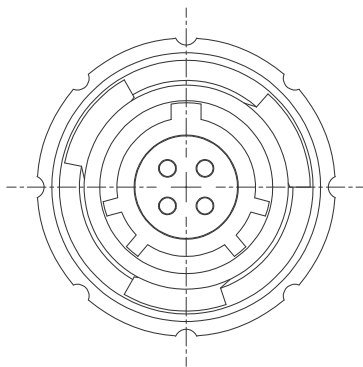
Receptacle

PIN CONNECTORS OF SNTS 127 TYPE WITHOUT OUTER SHELL



SHELL SIZE	øD	ød1	A	B MAX.	t
10	10	2.2	11.8	20.1	1.4
12	12	2.2	13.2	21.1	1.4
14	14	2.2	15.0	24.1	1.4
18	18	2.2	18.0	27.1	1.4
22	22	2.7	21.5	31.1	1.8
27	27	3.2	26.0	36.1	2.0

Socket Connectors Of SNTS 127 Type With Outer Shell



SHELL SIZE	D THRD	øD1	øD2	L MAX.
10	M10X0.75	7	20	32.3
12	M12X0.75	9	21	32.3
14	M14X0.75	11	24	32.3
18	M18X1.00	13	27	41
22	M22X1.00	15	31	42
27	M27X1.00	20	36	43

ALL DIMENSIONS ARE IN MM

Cross Reference List

Joint Services Standard (JSS-5935-10) Pattern	Details	Amphenol India Series	Gost No.
CCTM-WP/R	Receptacle WP Series	SHR Series	GEO.364.107.TU
CCTM-WP/PS CCTM-WP/PA	Plug WP Series	SHR Series	GEO.364.107.TU
CCTM-2PMr/R	Receptacle 2 PMG & 2 PMGD Series	2 RMG & 2 RMGD Series	GEO.364.126.TU GEO.364.140.TU
CCTM-2PM/PS CCTM-2PM/PA	Plug 2PM & 2PMD Series	2RM & 2RMD Series	GEO.364.126.TU
CCTM-PC/PS CCTM-PC/R	Plug, PC Series Receptacle, PC Series	RS Series	ABO.364.047.TU
NA	Plug, 2PTT Series Receptacle, 2PTT Series	2RTT Series	GEO.364.120.TU
NA	PPC 3, 4, 5 Series	RRS 3, 4, 5 Series	GEO.364.215.TU
NA	MP1 Series	MR1 Series	GEO.364.184.TU
NA	OHŁ-BC1 Series	ONTS-BS1 Series	BRO.364.030.TU
NA	CHŁ 13,14 Series	SNTS - 13,14 Series	GEO.364.345.TU
NA	CHŁ 23 Series	SNTS 23 Series	GEO.364.241.TU
NA	CHŁ 127 Series	SNTS 127 Series	NKTSS. 434410.511.TU