

A connector consists of a «plug» and a «socket».

The term «plug» relates always to the part which is introduced within the associated part known as the «socket», irrespective of the kind of contacts with which these elements are equipped.

The terms "plug" and "socket" depend therefore on the shape of the housing and not on the contact block.

As required, the "plugs" as well as "sockets" can be supplied with contacts protected against the risk of accidental touch.

Abbreviations for elements

(see photo on page.)

S	= Plug
SE	= Watertight plug
WS	= Square plug
SF	= Panel plug without locking
D	= Chassis socket
DEE	= Watertight chassis socket
DB	= Chassis socket for external mounting
DBEE	= Watertight chassis socket for external mounting
WDE	= Watertight bushing for connection of 2 plugs
K	= Cable socket
KE	= Watertight socket
DK	= Socket with cable clip
DKE	= Watertight socket with cable clip

The sockets DB, DBEE, KE and DKE can be used with plugs provided with outer protection of thermoplastic rubber.

The watertight bushings WDE are designed for the connection of 2 plugs of which one plug is version "A" and one plug is version "Z".

The connectors for thermocouples are provided with contacts of different lengths enabling their polarity to be determined.

The long contact (soldered side) is electrically positive. Examples: chromel, iron, copper, etc. The short contact (soldered side) is electrically negative. Examples: alumel, constantan, etc.

The internal parts of the square "plug" WS enable the contact block to be mounted with its guide in 4 different positions in relation to the cable outlet.

Instructions for making out orders

For the designation of parts required it is only necessary to indicate the abbreviation for the part, followed by the type in question.

For the plugs S, SE, WS and the connections K, KE, DK and DKE, the construction and the dimensions of the cable specified should be stated and indicated if for a screened cable (s) or for a cable without screen (u).

Examples

1. Connector comprising a socket D with protected contacts and a plug S, serie 105, with 4 poles to be assembled on a cable without screen having a max. outer diameter of 9,2 mm
D 105 A053
S 105 A053 Ø 9,2 u
2. Connector comprising a socket D with male contacts and a square plug WS with protected female contacts, serie 105, with 7 poles to be assembled on a screened cable having a max. outer diameter of 10,3 mm
D 105 Z054
WS 105 Z054 Ø 10,3 s
3. Coaxial connector, series 105, 50 ohms, comprising a socket D with protected female contact and a plus S with male contact
D 105 A002
S 105 A002, coaxial cable ext. diam. 10,3, diam. over dielectric 7.25 mm.

We reserve the right to introduce any modifications we deem to be necessary for the improvement, rationalisation or any other cause, without obligation to replace or manufacture obsolete models.



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Special Requirements

Name:

Date:

Address:

If your particular need for special connectors is not included in this catalogue, we shall be pleased to submit to you with the minimum of delay, and naturally without charge, a design which meets your requirements. So as to avoid any loss of time by having to ask you for further details you are requested to provide us with the fullest information possible, such as:

1. Multi-pin, coaxial, or mixed
2. Type of body required
3. Number of contacts
4. Working or test voltage
5. Current, constant or alternating
6. Frequency.....
7. Impedance
8. Construction and dimensions of cable
9. Limitation on size or room available
10. Application
11. Conditions of operation:
 - a) Temperature
 - b) Sealed for What pressure, or vacuum, or water, etc.
12. Special features
13. Quantity required:
- a) Immediately
 - b) Annually
14. Price envisaged
15. Delivery required:
- a) for the project
 - b) for the prototype
 - c) for production quantities

We, and our representatives, are at your entire disposition to examine your particular problems.

Questionnaires for special patterns are contained at the end of this catalogue.



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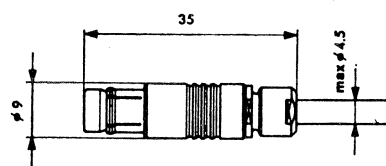
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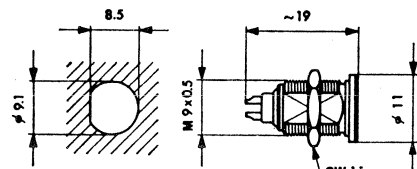
Télex 458 103 fish - ch

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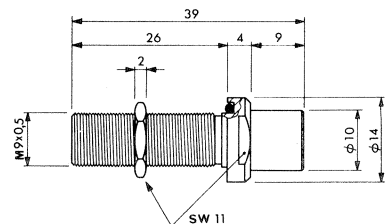
SERIE 102



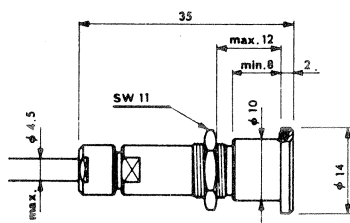
PLUG S



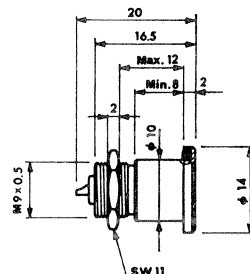
CHASSIS SOCKET D



WATERPROOF BUSCHING WDE 102

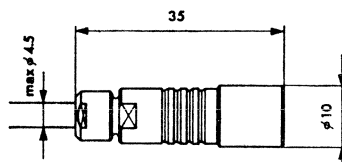
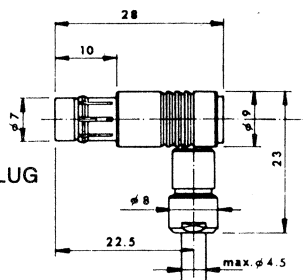


WATERPROOF SOCKET DKE
with cable clip

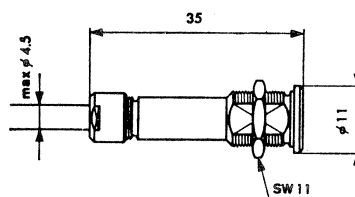


WATERPROOF
CHASSIS SOCKET DEE

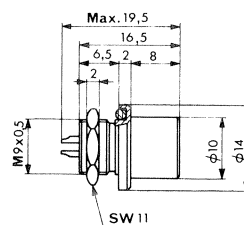
SQUARE PLUG
WS



SOCKET K



SOCKET DK
with cable clip



WATERPROOF CHASSIS SOCKET DBEE

102 A001
102 A018



102 A002
102 A017



102 A014



102 A051



102 A052



102 A053



102 A019



102 A021



102 A022



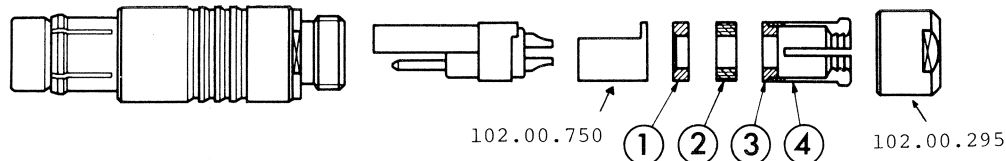
The same dimensions as for S and K hold good for SE and KE

Important! It is essential that the outer cable diameter is stated when ordering	Number of Contacts	Ø mm	Test Voltage mated		Impedance Ohms	Maximum Admissible Current Amps	Reference Number
			KV Contact Body	KV Contact Contact			
Coaxial	1	1.6	1.4			6	102 A001
Single Pole high Tension	1	0.9	7 DC			2	102 A018
Coaxial for high Frequency	1	0.9	1.8		50Ω	2	102 A002
Coxial for high Frequency	1	1.3	1.5		75Ω	4	102 A017
Triaxial	2	0.9				2	102 A014
Multi-Pole	2	0.9	0.7	0.9		2	102 A051
Multi-Pole	3	0.9	0.7	0.9		2	102 A052
Multi-Pole	4	0.7	0.5	0.7		1	102 A053
Coaxial - Ceramic insulation	1	1.6	1.0			8	102 A019
Multi-Pole, Triaxial	2	0.9/3	0.16/1.4	0.7	50	2	102 A021
Multi-Pole - Cer. insulation D with square flange 21 x 21	2	0.9	0.7	0.9		2	102 A022

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SERIE 102

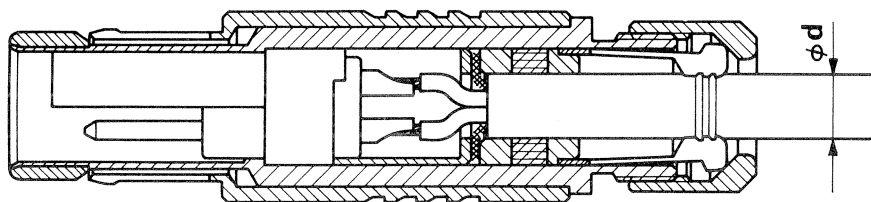
INSTRUCTIONS FOR ASSEMBLY OF : PLUG SE 102
CABLE SOCKET KE 102
CABLE SOCKET DKE 102



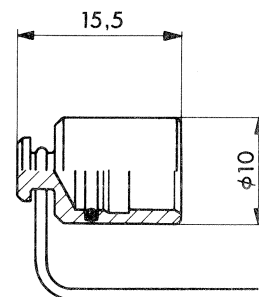
Fitting the cable

EXAMPLE : PLUG SE

The assembly of internal parts for the cable sockets KE and DKE is the same as for the internal assembly of plug SE.



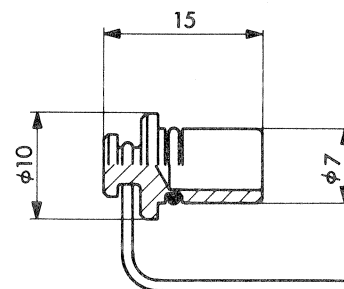
Sealing cap for plug S :
no 102.00.775



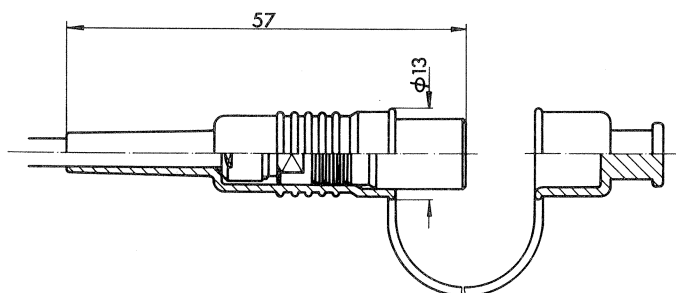
Reference numbers for interchangeable parts in accordance with cable diameter d (max. 4d)

Ø d	Washers ①	Rubber joint ②	Rings ③	Clips ④	Subassembly 1+2 + 3+4
1,5 - 2,0	102.00.751	102.00.757	102.00.763	102.00.769	E 102/2,0
2,0 - 2,5	102.00.752	102.00.758	102.00.764	102.00.770	E 102/2,5
2,5 - 3,0	102.00.753	102.00.759	102.00.765	102.00.771	E 102/3,0
3,0 - 3,5	102.00.754	102.00.760	102.00.766	102.00.772	E 102/3,5
3,5 - 4,0	102.00.755	102.00.761	102.00.767	102.00.773	E 102/4,0
3,9 - 4,3	102.00.756	102.00.762	102.00.768	102.00.774	E 102/4,3

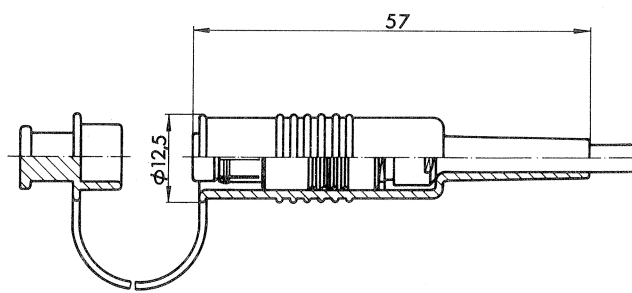
Sealing cap for socket D :
no 102.00.776



Rubber sleeve for socket K: No 102.00.786



Rubber sleeve for plug S: No 102.00.785



Swiss Patent No: 364,543 British Patent No: 948902 US Patent No: 3,160,457 Brev. Canada 1966 and other patents pend.



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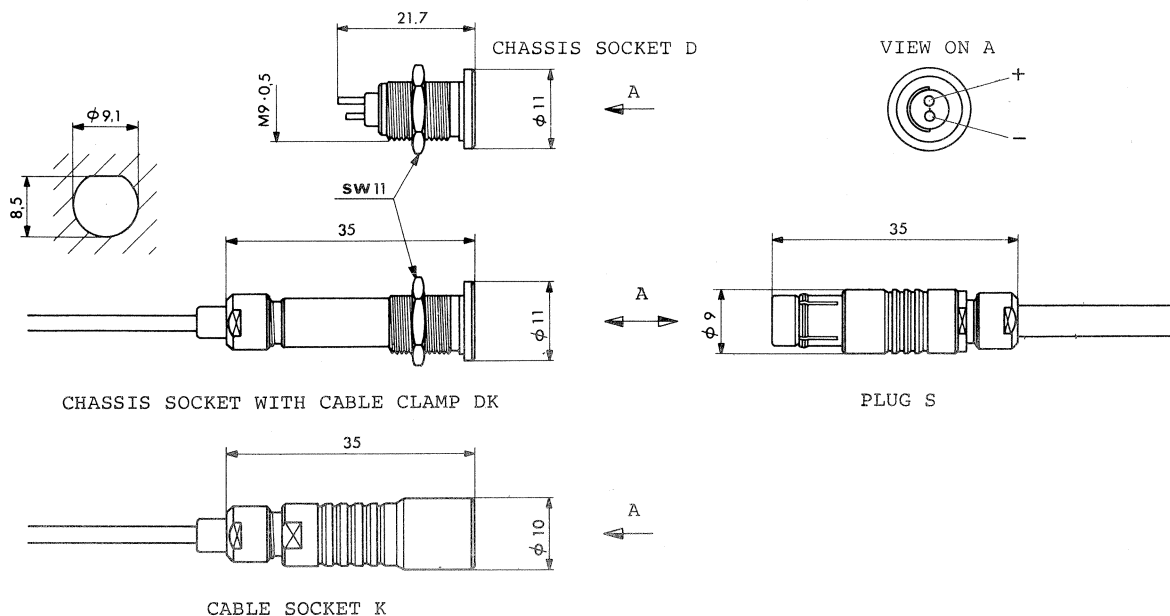
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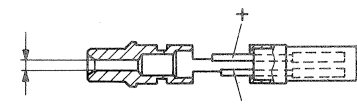
FOR THERMOCOUPLE

SERIE 102



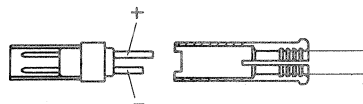
CONTACT BLOCKS

For Thermocoax®
STYLE M



Thermocouple external dia. 3,2 max

For compensating cable
STYLE P



Cable external dia. 4,5 max.

Remarks : The longer contact is electrically positive.
The styles M & P may be fitted in the S, K or DK bodies

Number	Contacts		Insulation	Reference No.
	Ø	Material		
2	0,9	CHROMEL-ALUMEL	PTFE	102 A005
2	0,9	CHROMEL-ALUMEL	Ceramic	102 A006
2	0,9	BRASS GOLD-PLATED	PTFE	102 A007
2	0,9	BRASS GOLD-PLATED	Ceramic	102 A008
2	0,9	IRON-CONSTANTAN	PTFE	102 A009
2	0,9	COPPER-CONSTANTAN	PTFE	102 A016

Order example : DK 102 A009-M-2Ø
 DK = Body Style
 102 A009 = Type of contacts & insulation
 M = Style of contact bloc
 2Ø = External diameter of Thermocoax®

Swiss Patent No: 364,543 British Patent No: 948902 US Patent No: 3,160,457 Brev. Canada 1966 and other patents pend.



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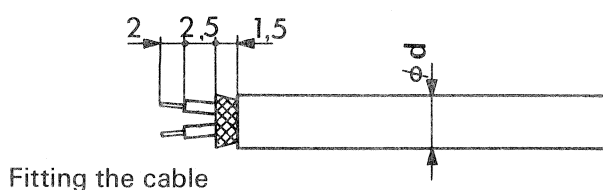
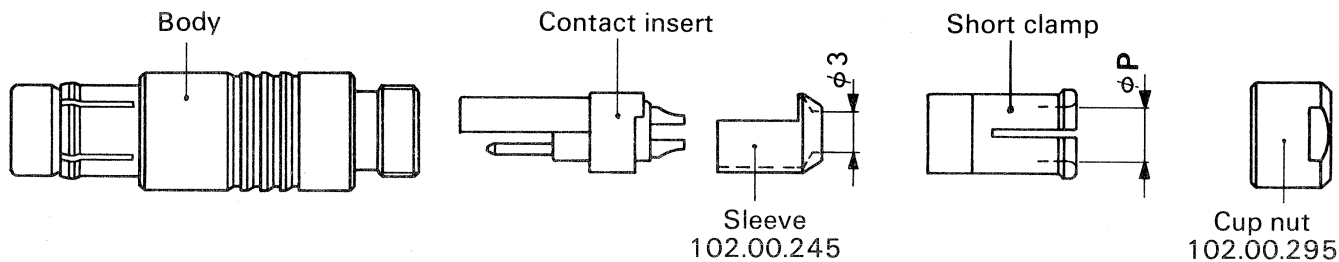
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ASSEMBLY INSTRUCTIONS

SERIE 102

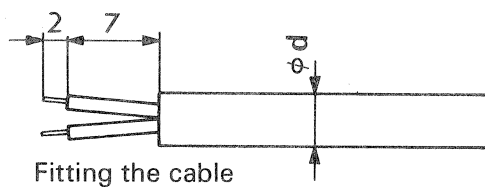
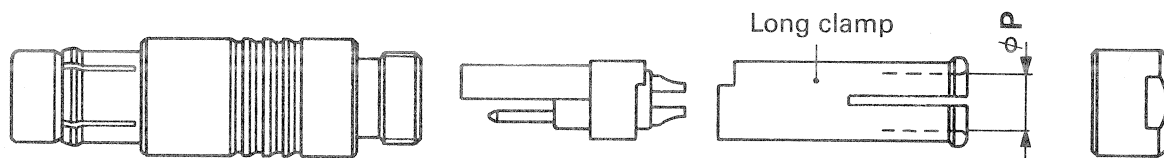
ASSEMBLY INSTRUCTION FOR SCREENED CABLE FOR S, K AND DK



SHORT CLAMP

ϕd	ϕP	No réf.
4,1 - 4,5	4,7	102.00.248
3,9 - 4,1	4,3	102.00.774/1226
3,4 - 3,9	4,1	102.00.773/1226
2,9 - 3,4	3,6	102.00.772/1226
2,4 - 2,9	3,1	102.00.771/1226
1,9 - 2,4	2,6	102.00.770/1226
1,4 - 1,9	2,1	102.00.769/1226

ASSEMBLY INSTRUCTION FOR A CABLE WITHOUT SCREEN: S, K AND DK



LONG CLAMP

ϕd	ϕP	No réf.
4 - 4,5	4,7	102.00.211
3,4 - 4	4,2	102.00.210
2,6 - 3,4	3,5	102.00.212
1,9 - 2,6	2,7	102.00.213
1,4 - 1,9	2	102.00.214

Swiss patent 364,543



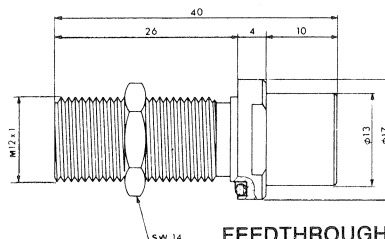
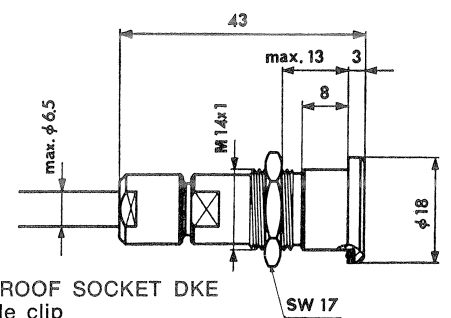
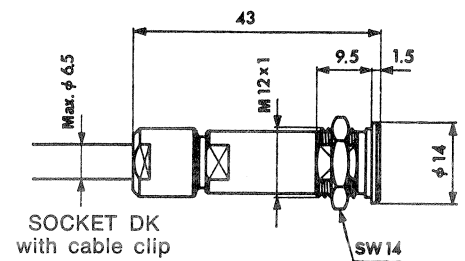
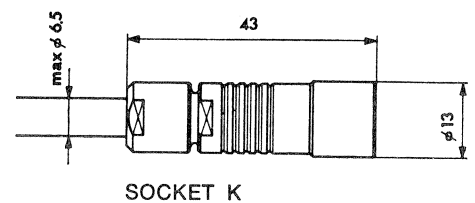
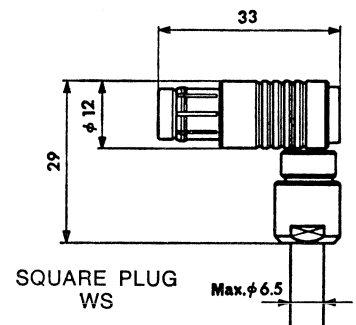
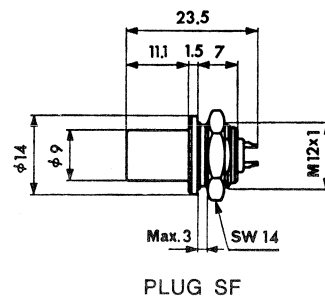
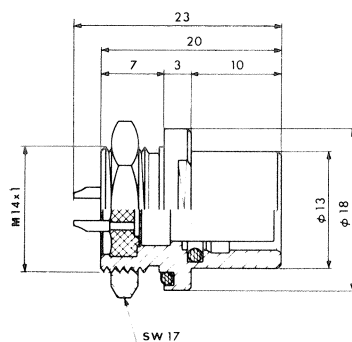
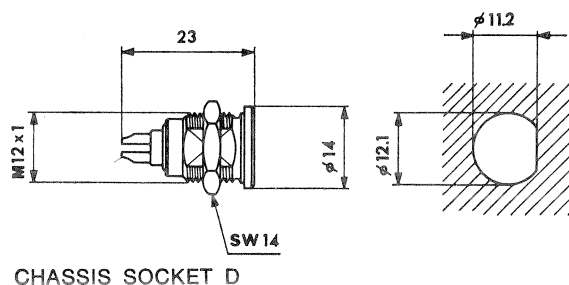
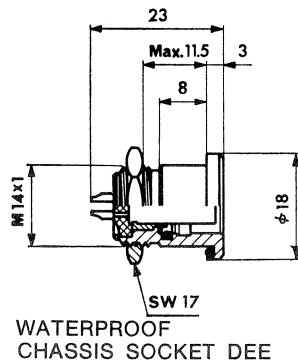
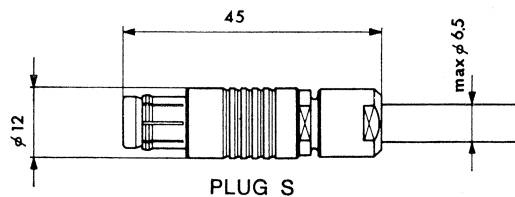
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SERIE 103



The same dimensions as for S and K hold good for SE and KE

Swiss Patent No: 364,543 British Patent No: 948902 US Patent No: 3,160,457 Brev. Canada 1966 and other patents pend.



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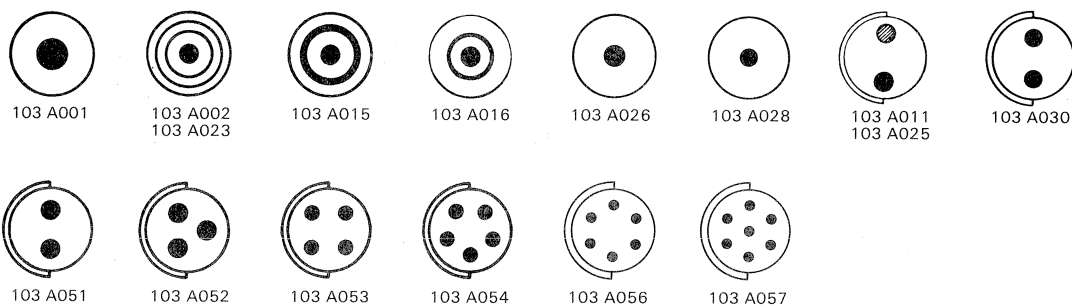
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SERIE 103



Important! It is essential that the outer cable diameter is stated when ordering	Number of Contacts	Ø mm	Test Voltage mated		Impedance Ohms	Maximum Admissible Current Amps	Reference Number
			KV Contact Body	KV Contact Contact			
Coaxial	1	2.0	2.6			8	103 A001
Coaxial for high Frequency	1	1.3	3.2		75Ω	4	103 A002
Coaxial for high Frequency and high Tension	1	1.3	9 DC		50Ω	4	103 A023
Triaxial	2	1.3	1.1	1		4	103 A015
Triaxial Insulator ceramic	2	1.3	1.1	1		4	103 A016
Multi-Pole for Thermocouples Iron Constantan	1 Fe. 1 Co.	1.3 1.3	0.7	1.3		4	103 A011
Multi-Pole for Thermocouples Chromel-Alumel	1 Cr. 1 Al.	1.3 1.3	0.7	1.3		4	103 A025
Coaxial	1	1.6	1.8		50	6	103 A026
Coaxial for High Tension Ceramic Insulation	1	1.3	9.0 DC			4	103 A028
Multi-Pole for Thermocouples 1 Copper + 1 Constantan	2	1.3	0.7	1.2			103 A030
Multi-Pole	2	1.3	0.7	1.2		4	103 A051
Multi-Pole	3	1.3	0.7	0.8		4	103 A052
Multi-Pole	4	0.9	0.7	1.3		2	103 A053
Multi-Pole	5	0.9	0.7	0.9		2	103 A054
Multi-Pole	6	0.7	0.6	0.5		2	103 A056
Multi-Pole	7	0.7	0.6	0.5		2	103 A057

Swiss Patent No: 364,543 British Patent No: 948902 US Patent No: 3,160,457 Brev. Canada 1966 and other patents pend.



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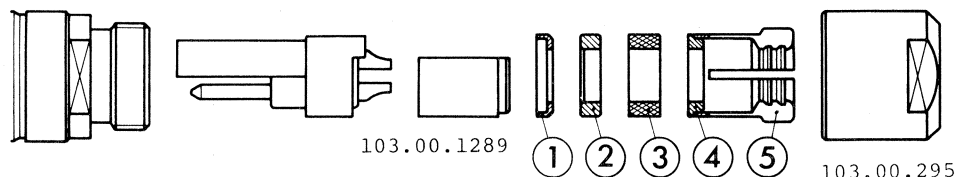
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SERIE 103

INSTRUCTIONS FOR ASSEMBLY OF :
PLUG SE 103
CABLE SOCKET KE 103
CABLE SOCKET DKE 103

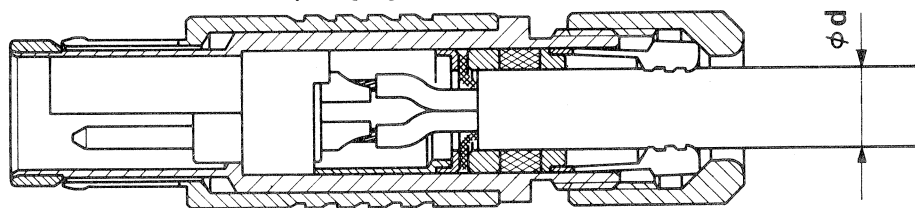


Fitting the cable



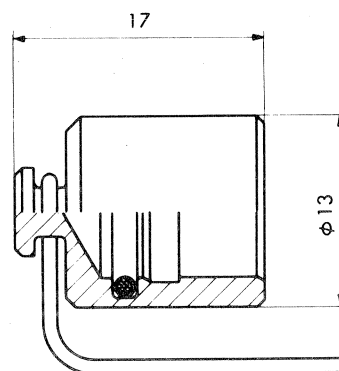
EXAMPLE : PLUG SE

The assembly of internal parts for the cable sockets KE and DKE is the same as for the internal assembly of plug SE.

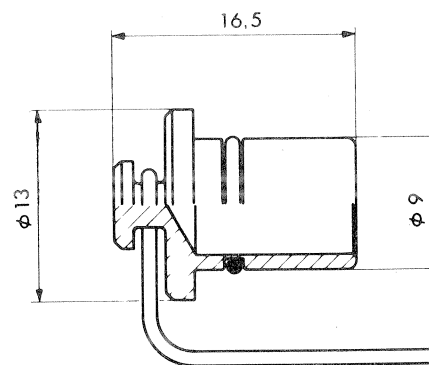


Reference numbers for interchangeable parts in accordance with cable diameter d (max. 6 Ø)

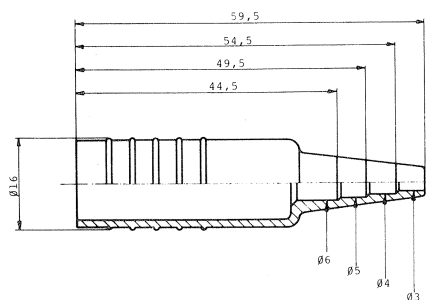
Ø d	Rings ①	Washers ②	Rubber joint ③	Rings ④	Clips ⑤	Subassembly 1+2 + 3+4+5
1,5 - 2,0	103.00.1256	103.00.1535	103.00.1536	103.00.1533	103.00.1434	E 103/2,0
2,0 - 2,5	103.00.1256	103.00.1534	103.00.1264	103.00.1532	103.00.1531	E 103/2,5
2,5 - 3,0	103.00.1256	103.00.1263	103.00.1270	103.00.1277	103.00.1284	E 103/3,0
3,0 - 3,5	103.00.1255	103.00.1262	103.00.1269	103.00.1276	103.00.1283	E 103/3,5
3,5 - 4,0	103.00.1254	103.00.1261	103.00.1268	103.00.1275	103.00.1282	E 103/4,0
4,0 - 4,5	103.00.1253	103.00.1260	103.00.1267	103.00.1274	103.00.1281	E 103/4,5
4,5 - 5,0	103.00.1252	103.00.1259	103.00.1266	103.00.1273	103.00.1280	E 103/5,0
5,0 - 5,5	103.00.1251	103.00.1258	103.00.1265	103.00.1272	103.00.1279	E 103/5,5
5,5 - 6,0	103.00.1250	103.00.1257	103.00.1264	103.00.1271	103.00.1278	E 103/6,0



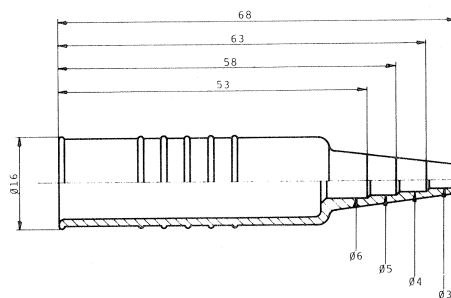
Sealing cap for plug S :
no 103.00.720



Sealing cap for socket D :
no 103.00.721



Rubber Sleeve for socket K:
n° 103.00.686



Rubber Sleeve for plug S:
n° 103.00.685

Swiss Patent No: 364,543 British Patent No: 949802 US Patent No: 3,160,457 Brev. Canada 1966 and other patents pend.



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