

Reference
104 A086
16-pins

NEW

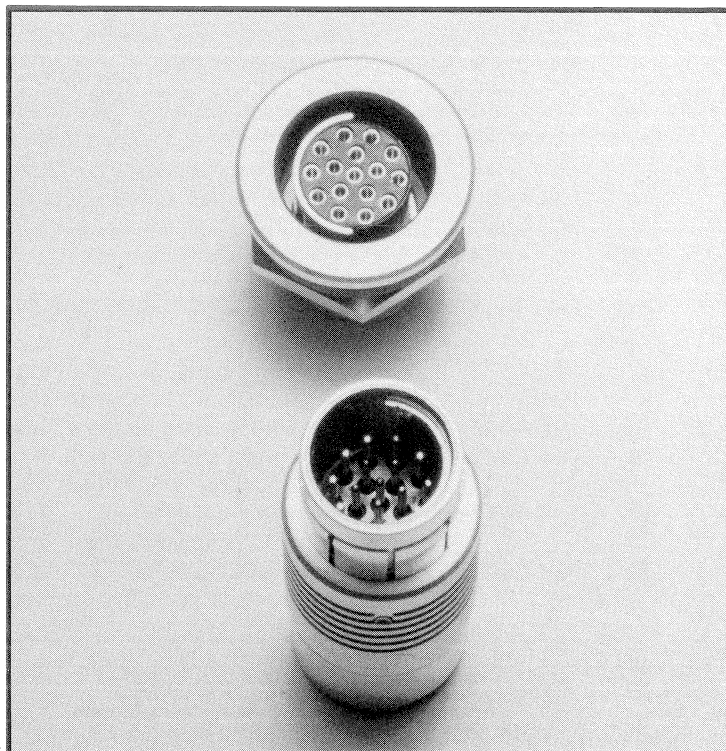
Series 104

A new design has been added to the Fischer 104 series high quality, self-locking, electrical connector range.

The new connector is a 16 pin style with glass fibre loaded P.B.T.P. insulation, self extinguishable conforming to UL 94 V-O.

These connectors are available in 3 different versions:

- with solder contacts
- with crimp contacts
- with contacts for printed circuits.



Technical data

1. Outline dimensions

(refer to pages 2 and 4)

2. Material and treatment

Bodies

Inside metallic parts

Contacts

Insulator

Brass, nickel and chromium plated with colour guide mark (special versions: black chromium plated with colour guide mark).

Brass, nickel plated

Copper alloy, 1 µm gold over 5 µm Ni

PBT, glass filled Polyester

3. Contacts, specifications

Number

Nominal diameter

Max. conductor diameter/AWG

Impedance

Current, nominal

Max. admissible current, mated

–
mm
mm/–
Ω
A
A

16
0.7
0.6/26
–
1
3

4. Test voltage (mated 1 min, STP) According to CEI 130-1 article 14.5

AC(rms)
kV

contact body	contact contact
0.7	0.7

contact body	contact contact
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contact body	contact contact
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5. Working temperature

for standard version

for water- and gastight version

°C
°C

–40 to 125
–25 to 125



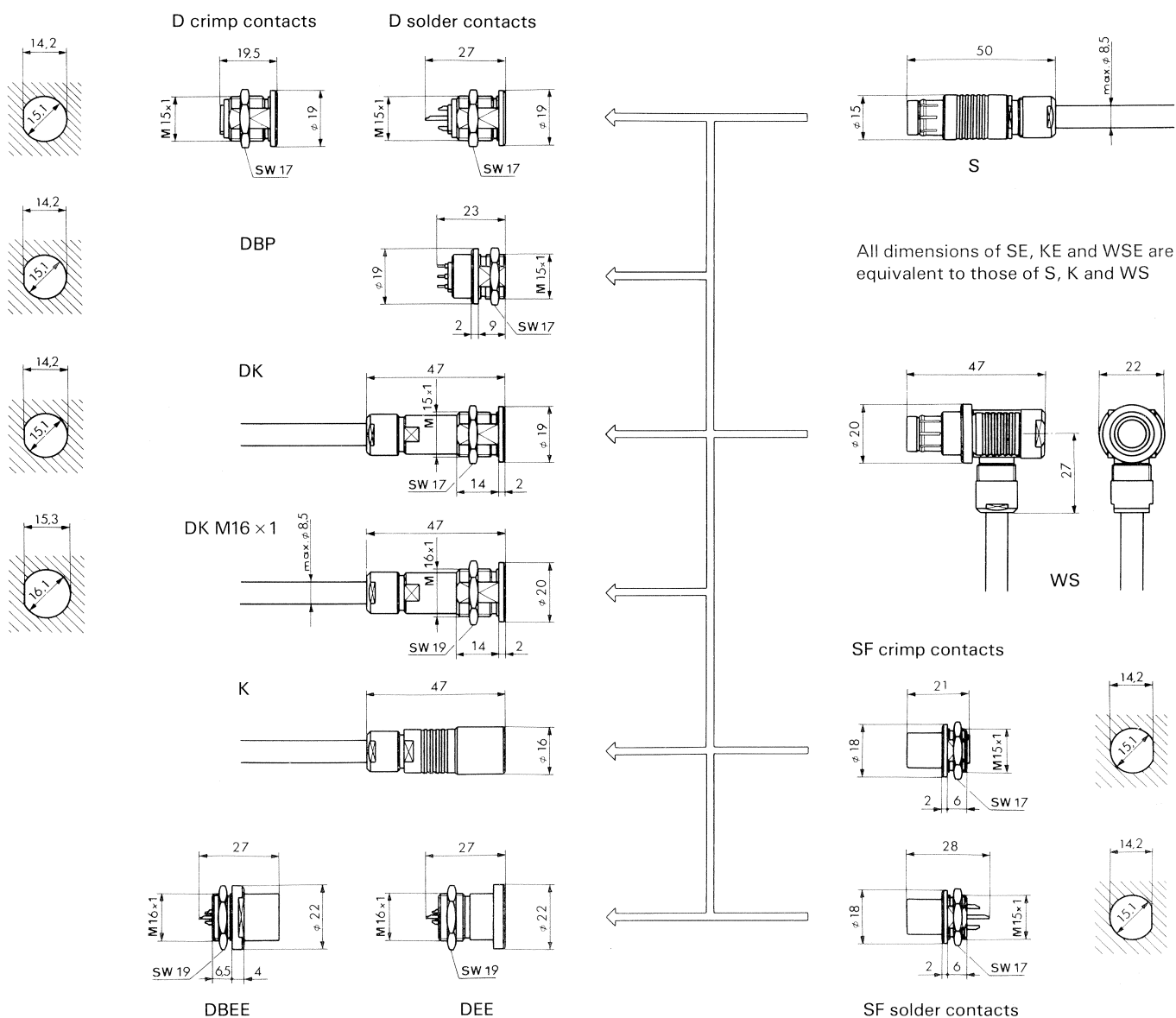
W.W. FISCHER SA
CONNECTEURS ÉLECTRIQUES

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SUISSE

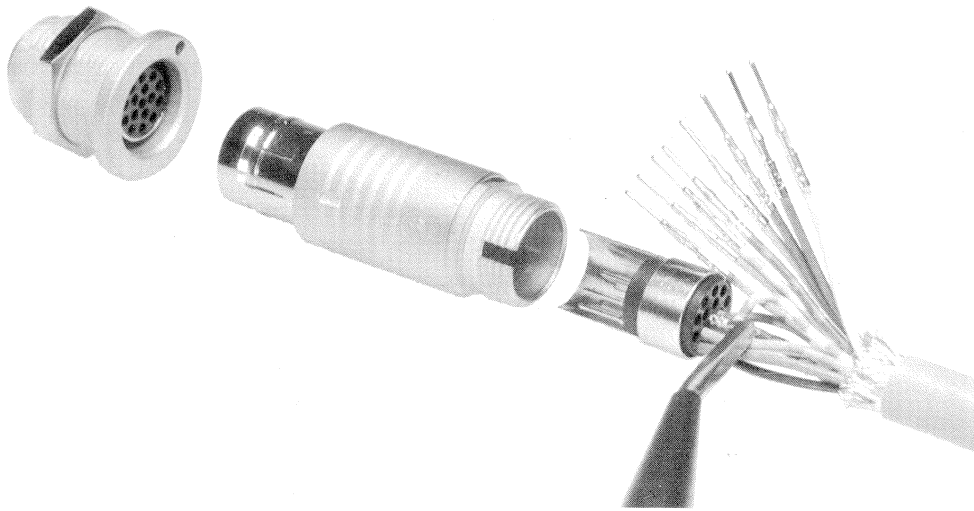
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REF.	Description
S	104 A086 Straight plug, 16 poles, solder contacts
S	104 A086-2 Straight plug, 16 poles, crimp contacts
S	104 A086-5 Straight plug, 16 poles, crimp contacts, housing black chromium plated
S	104 A086-9 Straight plug, 16 poles, solder contacts, housing black chromium plated
SE	104 A086 Straight plug, 16 poles, solder contacts, sealed
SE	104 A086-2 Straight plug, 16 poles, crimp contacts, sealed
SE	104 A086-5 Straight plug, 16 poles, crimp contacts, housing black chromium plated, sealed
SE	104 A086-9 Straight plug, 16 poles, solder contacts, housing black chromium plated, sealed
SF	104 A086-5 Panel plug, non-locking, 16 poles, crimp contacts, housing black chromium plated
SF	104 A086-9 Panel plug, non-locking, 16 poles, solder contacts, housing black chromium plated
WS	104 A086 Right angle plug, 16 poles, solder contacts
D	104 A086 Receptacle, 16 poles, solder contacts
D	104 A086-2 Receptacle, 16 poles, crimp contacts
D	104 A086-5 Receptacle, 16 poles, crimp contacts, housing black chromium plated
D	104 A086-9 Receptacle, 16 poles, solder contacts, housing black chromium plated
DBP	104 A086 Receptacle, back panel mounting, 16 poles, solder contacts for printed circuits
DEE	104 A086 Receptacle, 16 poles, solder contacts, sealed
DBEE	104 A086 Receptacle, front projecting, 16 poles, solder contacts, sealed
K	104 A086 Free coupler, 16 poles, solder contacts
K	104 A086-2 Free coupler, 16 poles, crimp contacts
DK	104 A086 Receptacle with cable retention, 16 poles, solder contacts
DK	104 A086-5 Receptacle with cable retention, 16 poles, crimp contacts, housing black chromium plated
DK	104 A086-9 Receptacle with cable retention, 16 poles, solder contacts, housing black chromium plated
DK	104 A086-11 Receptacle with cable retention, 16 poles, crimp contacts, housing black chromium plated, jam nut M 16 × 1

All dimensions in mm.

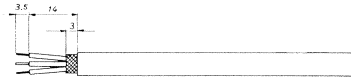


Assembly instructions for crimp contacts



TOOLS FOR REMOVABLE CRIMP CONTACTS Ø 0,7

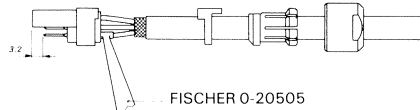
Stripping the cable



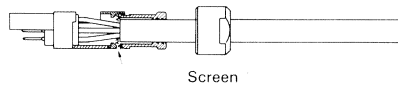
Crimping contacts

Crimping tool: Balmar 18-000 + FISCHER 0-20498
Locator head: FISCHER 104.00.961

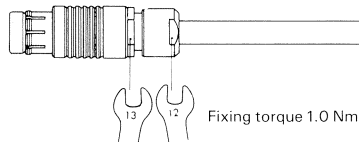
Inserting contacts



Internal parts assembly

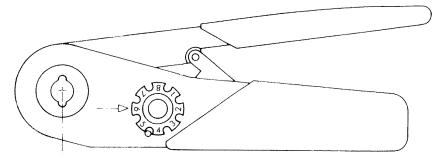


Rear nut tightening



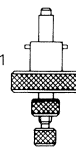
Crimping tool

Ref.: FISCHER 104.00.960
(BALMAR 18-000)
(DANIELS MH-800)



Locator head:
FISCHER 104.00.961

Ref.: FISCHER 104.00.961



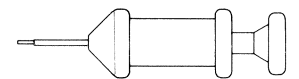
Inserting tool

Ref.: FISCHER 104.00.963



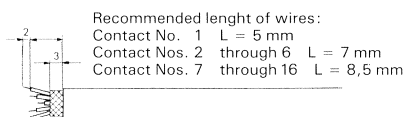
Extraction tool

Ref.: FISCHER 104.00.951

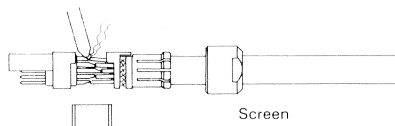


Assembly instructions for S, SE and DK with solder contacts

Cable preparation



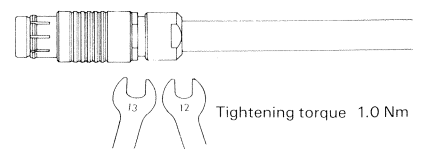
Soldering



Internal parts assembly

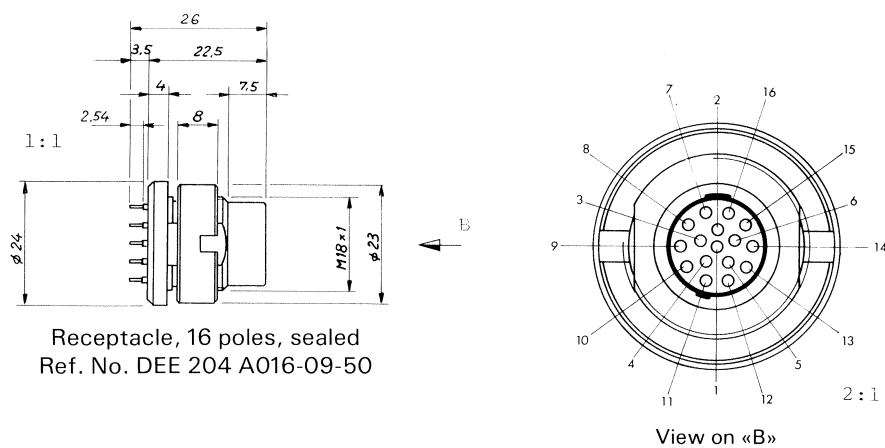
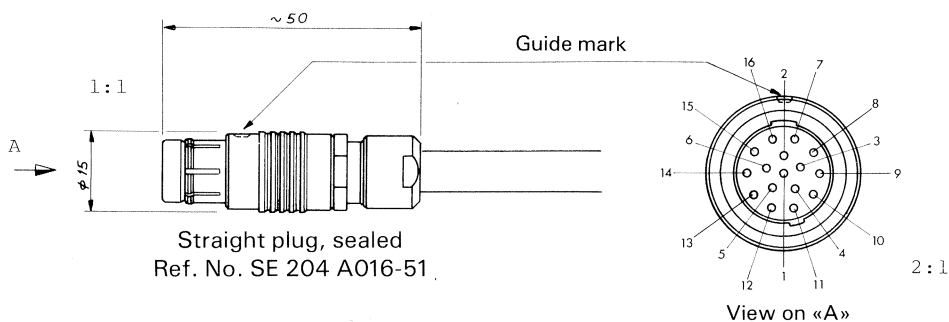


Tightening of clamp nut



Series 204, 16 poles

(with positioning key)



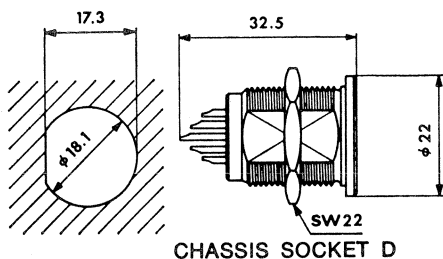
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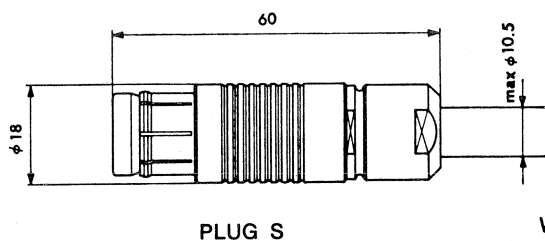
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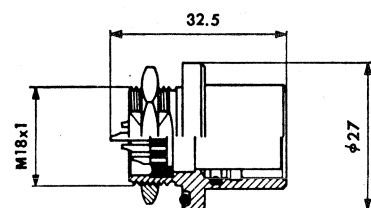
SERIE 105



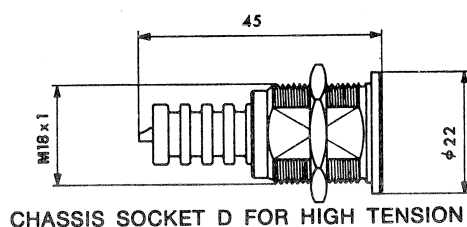
CHASSIS SOCKET D



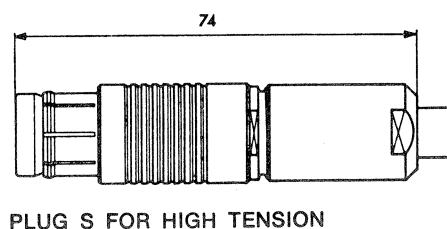
PLUG S



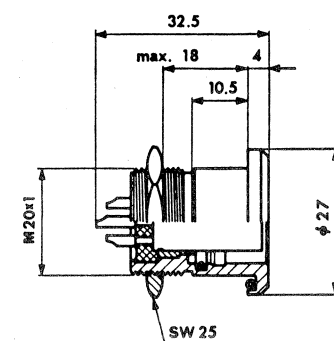
WATERPROOF CHASSIS SOCKET DBEE
FOR USE WITH RUBBER SLEEVE



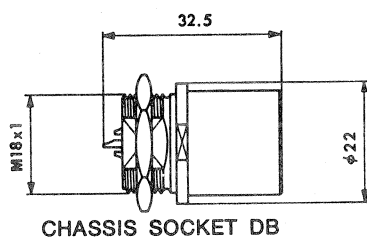
CHASSIS SOCKET D FOR HIGH TENSION



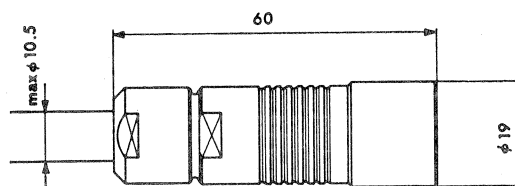
PLUG S FOR HIGH TENSION



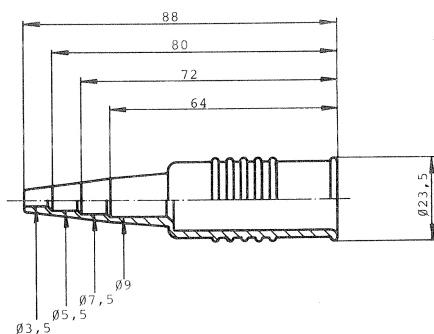
WATERPROOF
CHASSIS SOCKET DEE



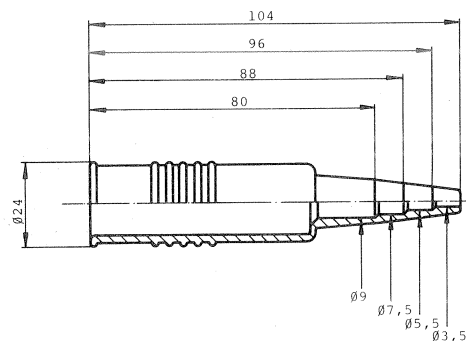
CHASSIS SOCKET DB



SOCKET K

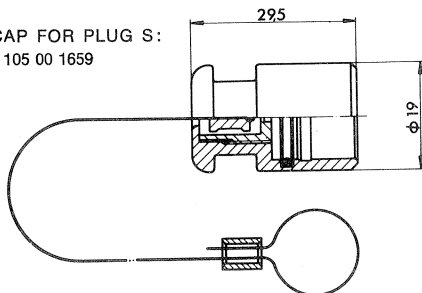


RUBBER SLEEVE FOR SOCKET K: No 105.00.1546

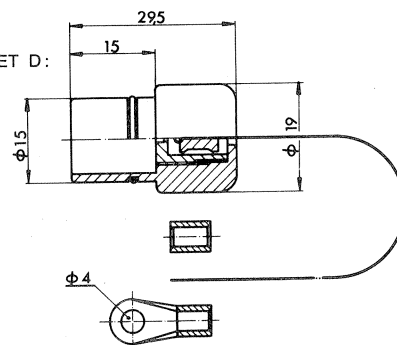


RUBBER SLEEVE FOR PLUG S: No 105.00.1545

SEALING CAP FOR PLUG S:
No 105 00 1659



SEALING CAP FOR SOCKET D:
No 105 00 1660



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: 3,180,457 Brev. Canada 1966 and other patents pend.



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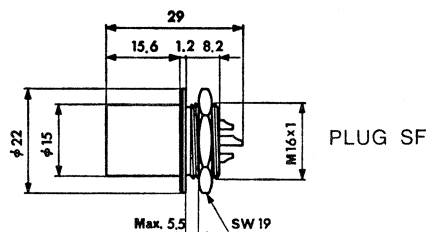
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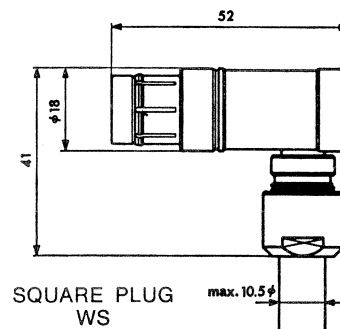
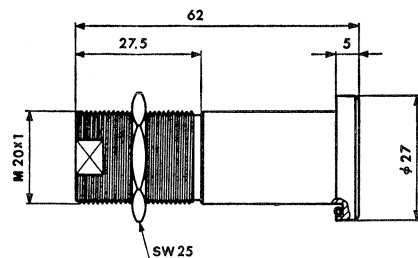
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SERIE 105

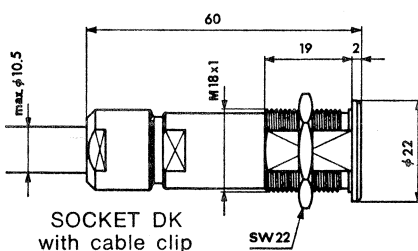


PLUG SF

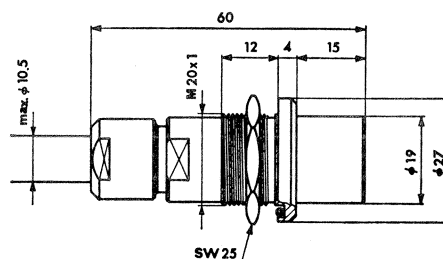


SQUARE PLUG
WS

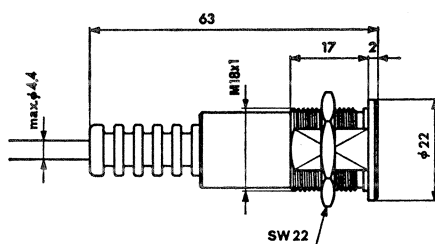
WATERPROOF BUSCHING
WDE



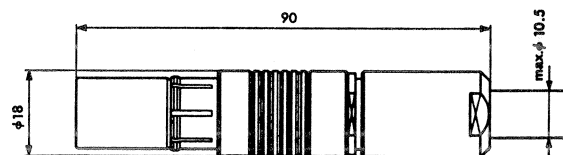
SOCKET DK
with cable clip



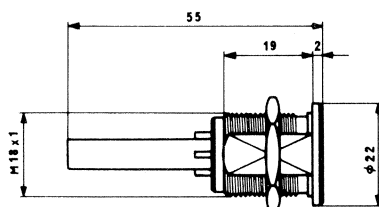
WATERPROOF SOCKET DKE
with cable clip



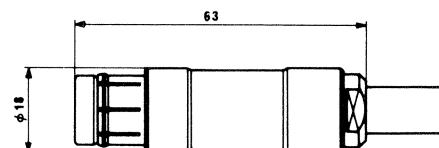
CHASSIS SOCKET FOR HIGH VOLTAGE
D 105 A049



PLUG FOR HIGH VOLTAGE
S 105 A049



Socket D 105 A020
D 105 A036
D 105 A060



Plug S 105 A020
S 105 A036
S 105 A060

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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