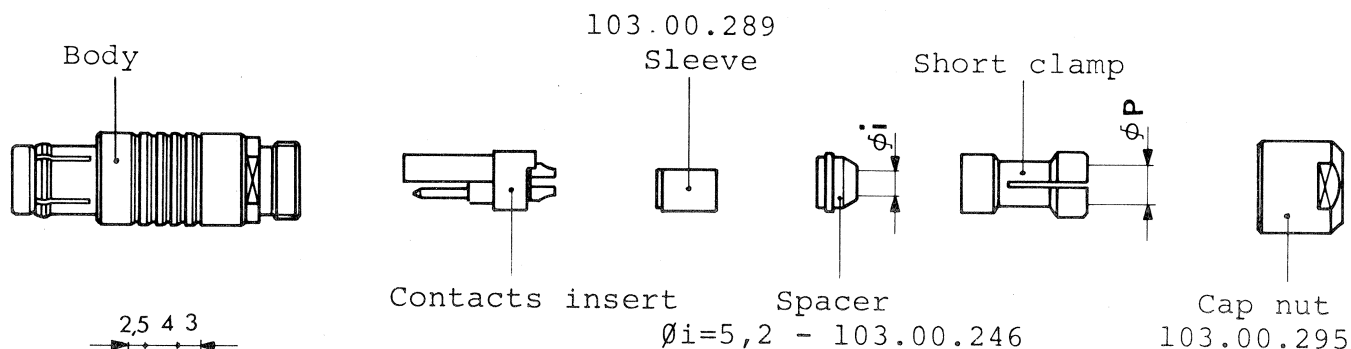


« FISCHER » ELECTRICAL CONNECTORS

SERIE 103

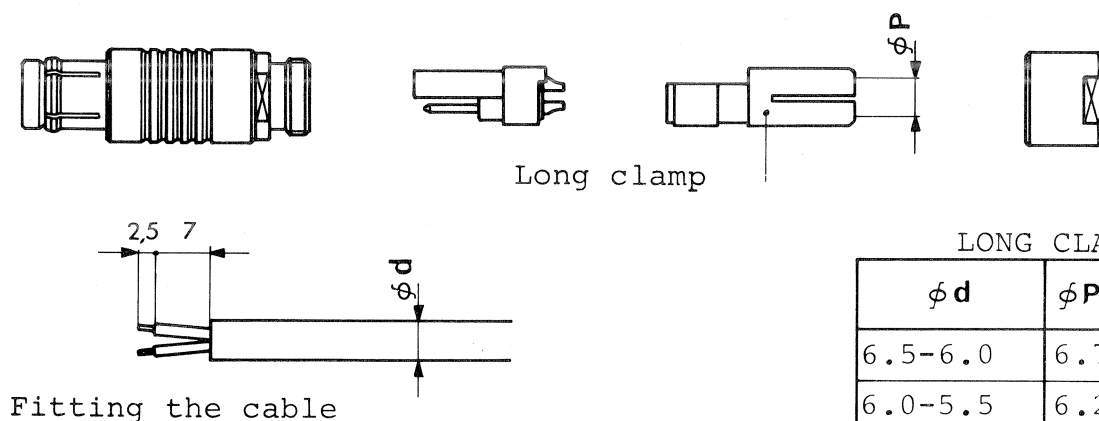
ASSEMBLY INSTRUCTION FOR SCREENED CABLE FOR S, K AND DK



SHORT CLAMP

ϕd	ϕP	Order No
6.5-5.5	6.7	103.00.230
5.4-4.4	5.5	103.00.231
4.4-3.4	4.5	103.00.232
4.0-3.0	4.1	103.00.234
3.4-2.4	3.5	103.00.233

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



LONG CLAMP

ϕd	ϕP	Order No
6.5-6.0	6.7	103.00.259
6.0-5.5	6.2	103.00.250
5.5-5.0	5.7	103.00.251
5.0-4.5	5.2	103.00.238
4.5-4.0	4.7	103.00.253
4.0-3.0	4.2	103.00.254
3.0-2.5	3.2	103.00.252

Swiss Patent No: 364,543

British Patent No: 948902

US Patent No: 3,160,457 Brev. Canada 1966 and other patents pend.

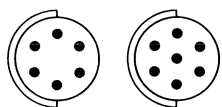


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CH - 1143 Apples

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Télex 458 103 fish - ch



Reference
103 A056 - 6 poles
103 A057 - 7 poles

NEW

Series 103

The series 103 of the «FISCHER» high precision, self-locking connectors, has been extended by a 6 contacts and a 7 contacts version, with inserts made of glass filled PBTP (Polybutylene terephthalate), self-extinguishing, according to UL 94 V-O.

4 different contact versions are available:

- contacts with solder bucket
- contacts with crimp barrel
- contacts with solder termination for printed circuits
- contacts with 90° solder termination for printed circuits.



Technical data

1. Outline dimensions

refer to page 2

2. Material and treatment

Shells

Inside metal 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

PBTP, glass filled Polybutylene terephthalate

3. Contacts, specifications

Number

Nominal diameter

Max. conductor diameter/AWG

Impedance

Current rating

Max. admissible current, mated

—

mm

mm/—

Ω

A

A

103 A056

6

0.7

0.6/26

—

1

3

contact to shell | contact to contact

0.7

103 A057

7

0.7

0.6/26

—

1

3

contact to shell | contact to contact

0.7

contact to shell | contact to contact

4. Test voltage (mated 1 min.) according to IEC 130-1 clause 14.5

kV

AC (rms)

5. Working temperature

for standard version

for sealed version

°C

°C

-40 to 125

-25 to 125



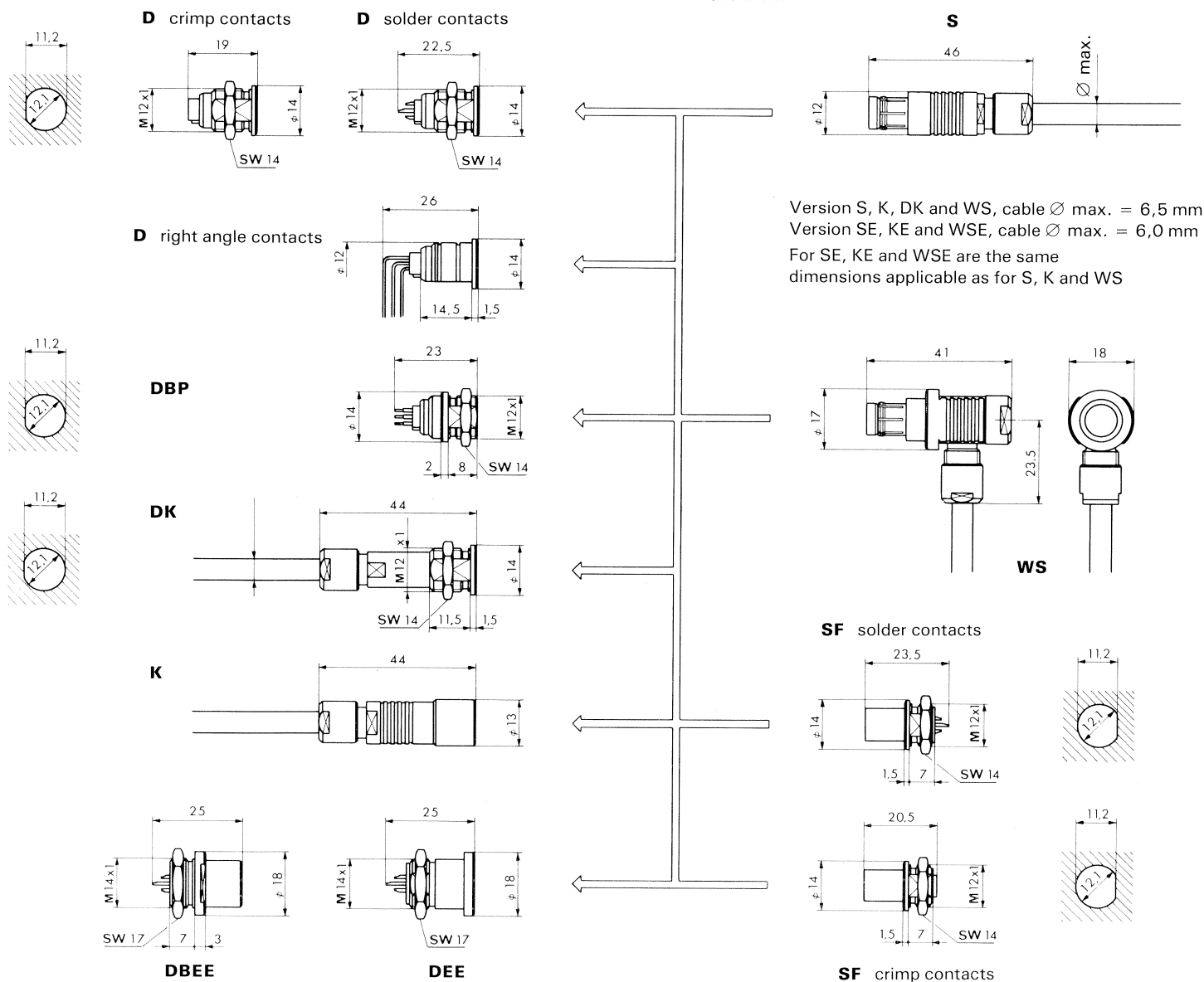
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REF.	Description
S 103 A056-2	Straight plug, 6 poles, crimp contacts
S 103 A056-3	Straight plug, 6 poles, solder contacts
WS 103 A056-3	Right angle plug, 6 poles, solder contacts
SE 103 A056-3	Straight plug, 6 poles, solder contacts, sealed
SE 103 A056-8	Straight plug, 6 poles, solder contacts, housing black chromium plated, sealed
SF 103 A056-3	Panel plug, non-locking, 6 poles, solder contacts
D 103 A056-1	Receptacle, 6 poles, right angle solder terminations for printed circuits
D 103 A056-2	Receptacle, 6 poles, crimp contacts
D 103 A056-3	Receptacle, 6 poles, solder contacts
DBP 103 A056-5	Receptacle, black panel mounting, 6 poles, solder terminations for printed circuits
DEE 103 A056-3	Receptacle, 6 poles, solder contacts, sealed
DEE 103 A056-8	Receptacle, 6 poles, solder terminations for printed circuits, housing black chromium plated, sealed
DBEE 103 A056-3	Receptacle, front projecting, 6 poles, solder contacts, sealed
K 103 A056-3	Free coupler, 6 poles, solder contacts
KE 103 A056-3	Free coupler, 6 poles, solder contacts, sealed
DK 103 A056-3	Receptical with cable retention, 6 poles, solder contacts
S 103 A057	Straight plug, 7 poles, solder contacts
S 103 A057-2	Straight plug, 7 poles, crimp contacts
WS 103 A057	Right angle plug, 7 poles, solder contacts
D 103 A057	Receptacle, 7 poles, solder contacts
D 103 A057-2	Receptacle, 7 poles, crimp contacts
DBP 103 A057	Receptacle, back panel mounting, 7 poles, solder terminations for printed circuits
DEE 103 A057	Receptacle, 7 poles, solder contacts, sealed
DBEE 103 A057	Receptacle, front projecting, 7 poles, solder contacts, sealed
K 103 A057	Free coupler, 7 poles, solder contacts
DK 103 A057	Receptacle with cable retention, 7 poles, solder contacts

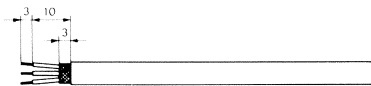
All dimensions in mm.



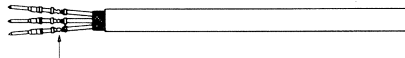
Assembly instructions for crimp contacts



Cable preparation

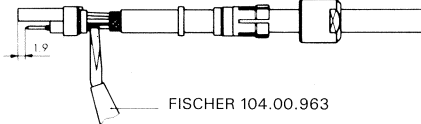


Crimping of contacts

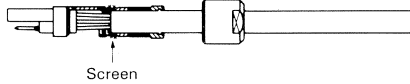


Crimping tool: FISCHER 104.00.960
Locator head: FISCHER 104.00.961

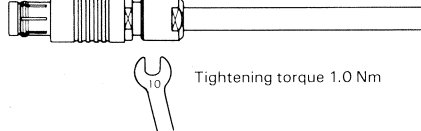
Insertion of contacts



Internal parts assembly



Tightening of clamp nut

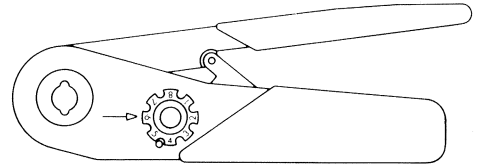


Tightening torque 1.0 Nm

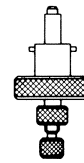
TOOLS FOR REMOVABLE CRIMP CONTACTS Ø 0,7

Crimping tool

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



Locator head



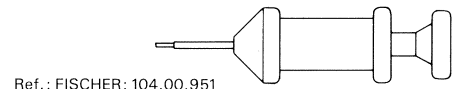
Ref.: FISCHER: 104.00.961

Insertion tool

Ref.: FISCHER: 104.00.963



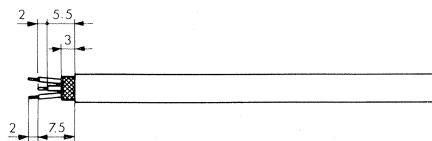
Extraction tool



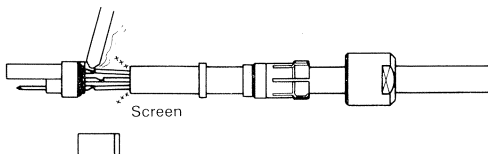
Ref.: FISCHER: 104.00.951

Assembly instructions for S-SE-K-DK with solder contacts

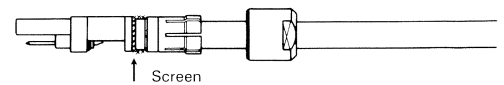
Cable preparation



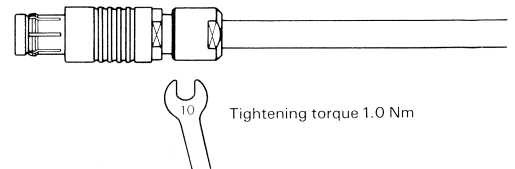
Soldering



Internal parts assembly

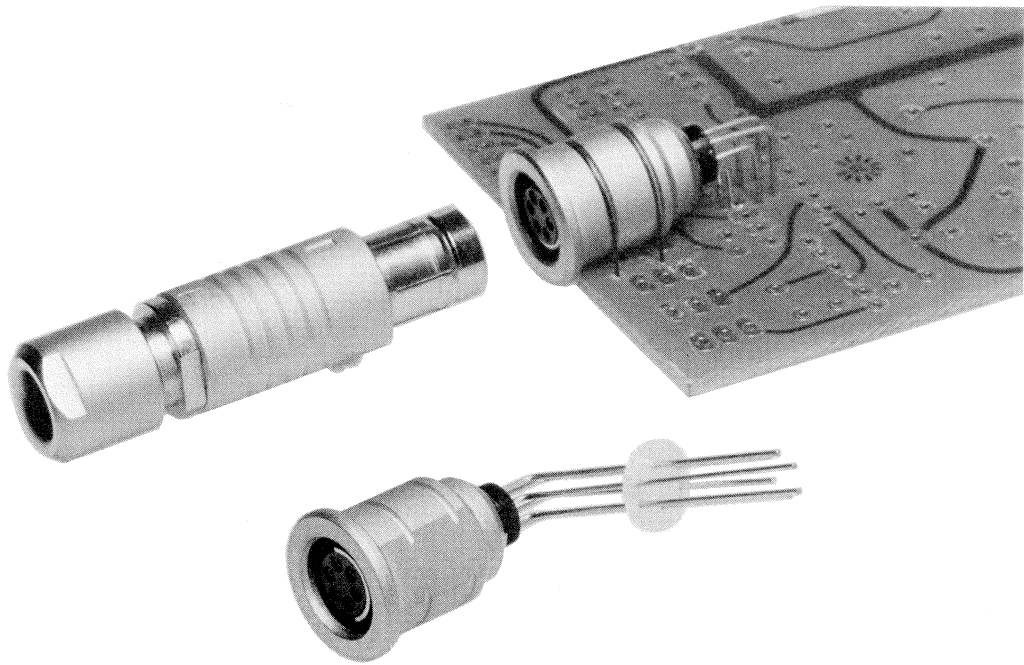


Tightening of clamp nut

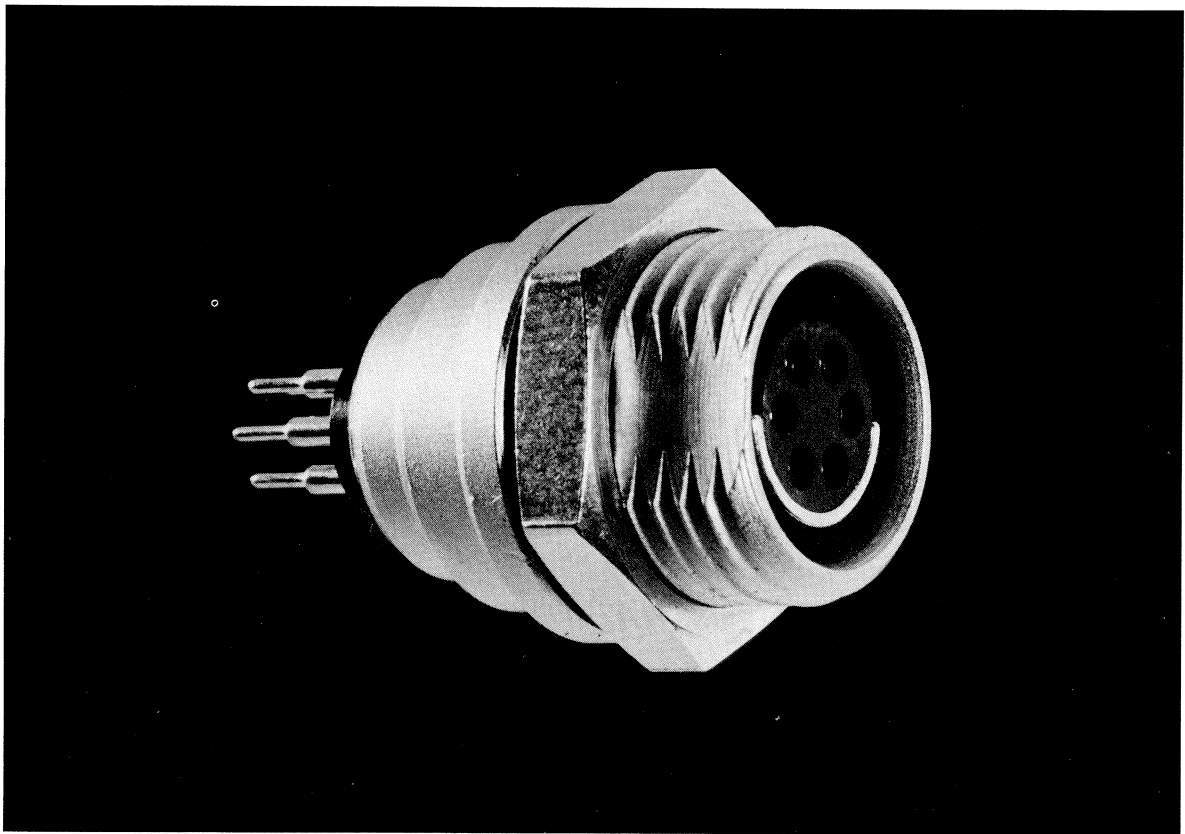


Tightening torque 1.0 Nm

Receptacle, 6 poles, right angle solder terminations for printed circuits



Back panel mounting receptacle, 6 and 7 poles, solder terminations for printed circuits



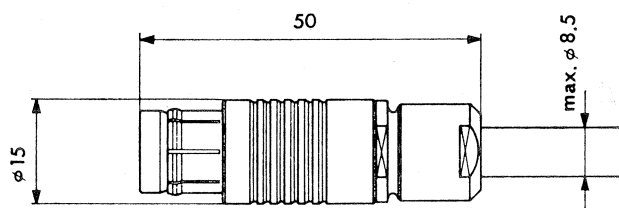
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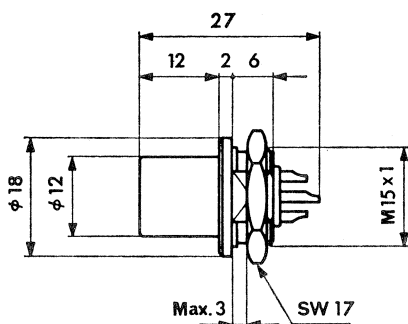
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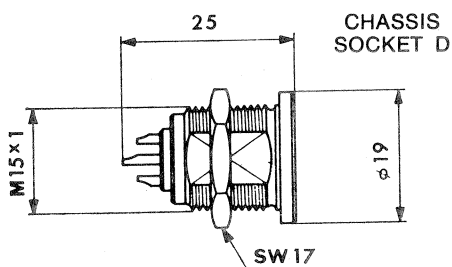
SERIE 104



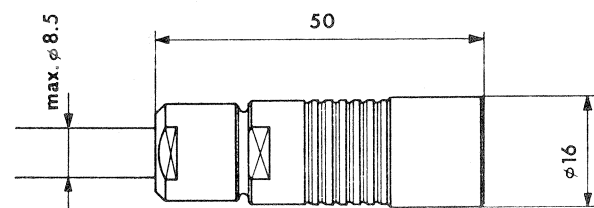
PLUG S



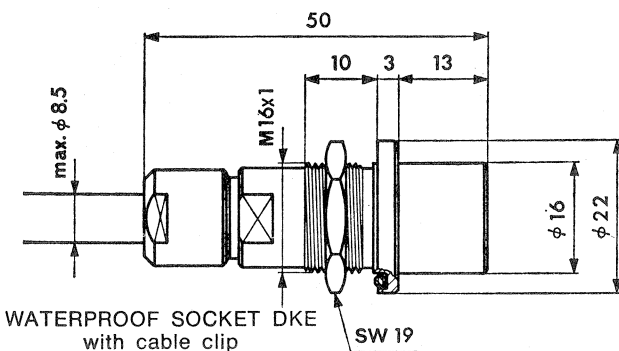
PLUG SF



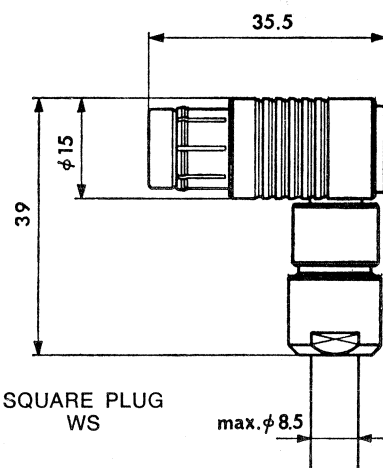
CHASSIS
SOCKET D



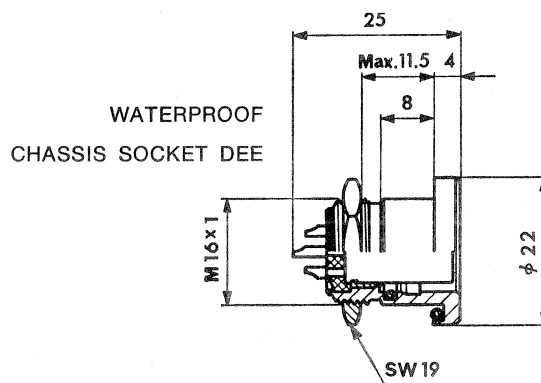
SOCKET K



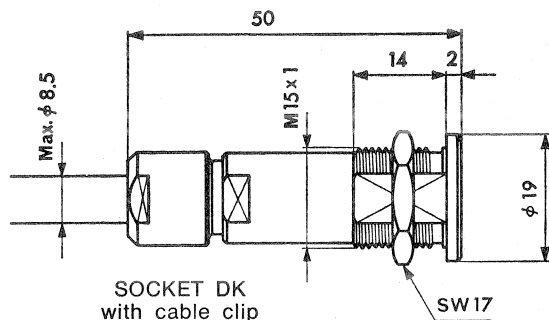
WATERPROOF SOCKET DKE
with cable clip



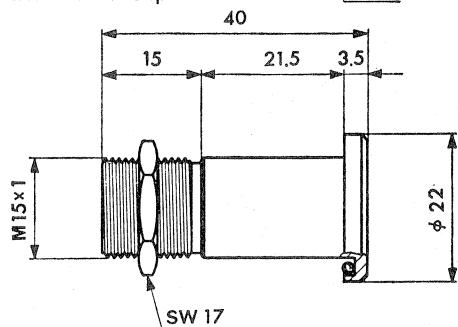
SQUARE PLUG
WS



WATERPROOF
CHASSIS SOCKET DEE



SOCKET DK
with cable clip



WATERPROOF BUSCHING WDE
for 2 plugs

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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