

Assembly Instructions for 21-pole Connector, not suitable for SEAL

Part Overview

Designation	Part no.
21-pole plug-pin box	7811217
21-pole socket-jack box	7812213
21-pole plug-jack box	7812221
21-pole socket-pin box	7811225
Seal for plug or socket	7810210
Pressure plate for plug or socket	7810393
Center ring for pin contacts (optional)	7810401
Adapter 21 NW 17	7807259
Adapter 26 NW 22	7807260
Adapter 34 NW 29	7807341
Jack contact Ø 1.6 mm 0.5 – 1.0 mm ²	7814009
Jack contact Ø 1.6 mm > 1.0 – 1.5 mm ²	7814011
Jack contact Ø 3.5 mm > 1.0 – 2.5 mm ²	7702957
Jack contact Ø 3.5 mm > 2.5 – 6.0 mm ²	7814038
Pin contact Ø 1.6 mm 0.5 – 1.0 mm ²	7815016
Pin contact Ø 1.6 mm > 1.0 – 1.5 mm ²	7815018
Pin contact Ø 3.5 mm > 1.0 – 2.5 mm ²	7702949
Pin contact Ø 3.5 mm > 2.5 – 6.0 mm ²	7815034

Single Parts

The plug or the socket comprises the according housing box, a seal (silicon 30 Shore), a pressure plate and one of three possible adapters for corrugated tubes. The connector can be allocated either with pin contacts or jack contacts, depending on the type of housing.

There are 14 contacts \varnothing 1.6 mm and 7 contacts \varnothing 3.5 mm. Correct assembly ensures IP 67. All displayed parts have to be assembled correctly in the stated order.

Assembly

Wire Insertion

The wires are carried through the cavities in the seal puncturing the nubs. The wires must not be bared and crimp contacts must not be applied to avoid damaging of the seal. This is important to provide leak tightness in assembled status. The nubs of the seal have to point to the plug or the socket. A clear coding avoids wrong assembly.

The wires are stripped and crimp contacts are applied. Usable wire cross-sections are listed in the part overview on page 1 of this document.

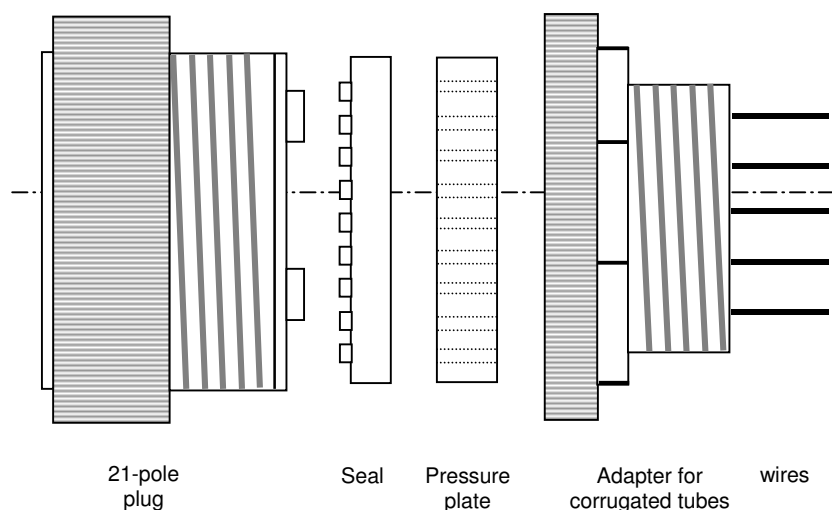
Final Assembly

After allocation of the connector housing with pin contacts or jack contacts the seal is pressed on the back of the housing as plane as possible. The pressure plate is assembled. It can be positioned in one dedicated direction only.

Finally the respective adapter for corrugated tubes is screwed on. Ensure the usage of a proper tool with width across flats 41 mm and the application of a tightening torque in the range of 2 to 4 Nm.

A center ring for pin contacts can be used optionally before the connection of plug and socket.

Schematic View



Analogue assembly of socket