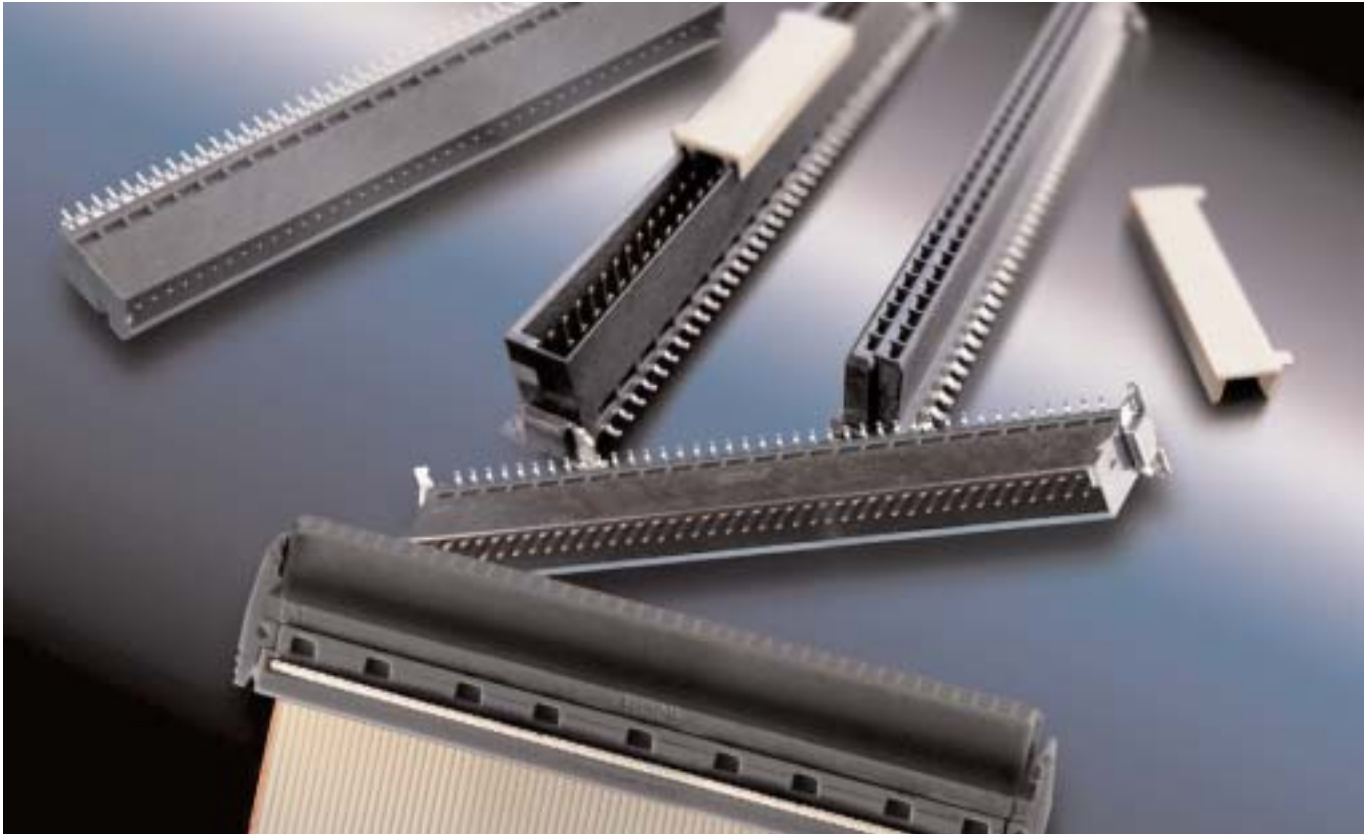


High Density SMC Connectors for modern bus applications

68pin and 80pin versions with SMT, IDC or pressfit termination



General

The 68- and 80pin male and female connectors of the SMC system in the 1.27 mm x 1.27 mm grid are designed for reliable and economical board-to-board solutions in modern applications like 64bit bus systems.

Significant for the SMC connectors are the compact dimensions, the excellent signal integrity and the economical assembly. Various termination styles with SMT and pressfit allow for backplane/ daughtercard solutions or in the combination male SMT connector and female IDC connector and the according ribbon cable for economical „board-to-wire“ applications. For space-saving Rear-I/O connections on the rear-side of the backplane ist the combination male pressfit connector and female IDC connector ideal. The SMC fits exactly between 2 slots on the backplane.



For your specific application you can decide for any board-to-board height between min. 8.0 mm and max. 14.0 mm. This is achieved by 2 styles, the standard and the low profile version.

Technical Features

3 termination styles: SMT, Pressfit, IDC
 Straight male and female SMT connectors in 2 styles: standard and low profile
 Straight male pressfit connectors in standard height
 Straight female IDC connectors with snap-in locking
 Cable assemblies

Technical Data

Current rating: 1.2 A (20°C) / 0.9 A (70°C) / 0.6 A (100°C)
 Voltage proof: 500 V
 Mating cycles: 500

SMT versions:
 Coplanarity: < 0.1 mm
 Reflow solder temperature: 10s at 260°

Materials
 Insulation body: LCP
 CTI value: CTI 150
 Contact material: Cu alloy
 Contact plating
 Mating area: Au over Ni
 Termination area: Sn



Ordering information

SMT versions:

Vertical female connectors, type B and vertical male connectors, type Q

Configuration	Number of pins	Assembly height	Part Number
Female	68	Standard	114803
Female	68	Low profile	144401
Female	80	Standard	114804
Male	68	Standard	114807
Male	68	Low Profile	144421
Male	80	Standard	114808

IDC versions and ribbon cable

Configuration	Number of pins	Part Number
Female	68	124263
Female	80	124264
Ribbon cable	68	134529
Ribbon cable	80	134530
Tool set for cable harnessing		134299
Bench press		134297
Cable assembly, length 100mm	68	193888
Cable assembly, length 200mm	68	193889
Cable assembly, length 300mm	68	193890
Cable assembly, length 100mm	80	193891
Cable assembly, length 200mm	80	193892
Cable assembly, length 300mm	80	193893

Pressfit versions:

Configuration	Number of pins	Assembly height	Part Number
Male	68	Standard	144183
Male	80	Standard	144185

Press-in tools

Configuration	Number of pins	Part Number
Upper tool	68	220644
Lower tool	68	220645
Upper tool	80	220646
Lower tool	80	220647

More technical data and drawings available on our web page www.erni.com/SMC.ssi