

SMC Enhancements

Additional Pin Counts in all Variations



ERNI Electronics is enhancing its popular two-row SMC connector family in a 1.27 mm pitch with versions featuring additional pins in all the available configurations (straight and angled male and female connectors plus female IDC connectors for ribbon cable systems). This means that SMC connectors are now also available with 16, 20, 32 and 40 pins, expanding the current range of 12, 26, 50, 68 and 80 contacts.

SMC connectors in a 1.27 mm pitch have been used successfully for roughly 20 years and have been consistently enhanced. The key design criteria of the SMC series are a patented, double-sided spring contact for good HF behavior and an extremely secure connection, a high-temperature-resistant insulator with polarization for extremely secure mating and SMT connection technology with 100% controlled coplanarity of the tiny contact pins.

Various modules such as straight and angled male and female connectors in combination with SMT and IDC connections offer users maximum scope for design. For miniature backplanes, male connectors in pressfit technology are also available.

The connectors are frequently used in a number of different locations within a system in order to achieve backplane, mezzanine, ribbon cable and coplanar connections. For further versatile subassembly designs, there are additional versions in various heights creating mezzanine distances from 8 to 20 mm. For extreme applications the distance can be increased up to 40 mm using board to board adapters.

The high quality SMC connectors are produced on state-of-the-art, fully automated manufacturing machines and are also designed for fully automated assembly. Thanks to their high contact density and the small board space required, SMC connectors are ideal for compact applications.



Available parts, male connectors, overview

No. of Pins	Vertical Male Connector, 1.75 mm	Vertical Male Connector, 3.25 mm	Vertical Male Pressfit Connector, 3.25 mm	Vertical Male Connector, 4.85 mm	Right Angle Male Connector
12	154818	154784	064002	234206	154763
16	254587	254536	-	254414	354094
20	254588	254537	-	254415	on request
26	154819	154785	064003	234207	154764
32	on request	254538	-	on request	354096
40	on request	254539	-	on request	on request
50	154820	154786	064004	234208	154765
68	154821	154787	144183	234209	154766
80	154822	154788	144185	234210	154767

Available parts, female connectors, overview

No. of Pins	Vertical Female Connector, 6.25 mm	Vertical Female Connector, 9 mm	Vertical Female Connector, 13.65 mm	Right Angle Female Connector	Female Connector, IDC
12	154805	154717	234198	154740	214345
16	on request	on request	on request	on request	294813
20	354056	on request	354071	354079	294814
26	154806	154718	204763	154741	214346
32	on request	on request	354072	354080	294815
40	on request	on request	on request	354081	294816
50	154807	154719	234199	154742	214347
68	154808	154720	234200	154743	214348
80	154809	154721	234201	154744	214349

Note: IDC connectors from ERNI are delivered only as cable assemblies!