ERNI

SMC

The ERNI SMC Connector System 1.27mm (.050") Board-to-Board & Cable-to-Board Connectors



A New Level of Connector Performance from ERNI

In response to the growing need for high density interconnects, ERNI offers the SMC Connector System which combines many of the high quality features of 2.54mm centerline connectors, like the ERNI DIN 41612 connectors, into a connector which uses half the space.

The result is a miniature connector with a 1.27 mm centerline, which offers distinct advantages in applications where space is at a premium and packaging density is an absolute. The SMC connectors feature both standard mating (straight socket to 90° plug) and inverse mating (straight plug to 90° socket) for printed circuit board (PCB) interconnecting. This provides for diverse PCBto-PCB applications such as right angle connector (on the "daughter" card) to straight connector (on the "mother" board) mating configurations or for parallel or stacking mating configurations. The SMC connectors also feature a cable-to-PC board version which provides an efficient means of connecting ribbon cables to PC boards in small spaces. Additionally, surface mount (SMT) and robot compatible versions allow PC boards to be assembled using the most advanced processing technologies.

Space Saving SMC Applications & Advantages

The SMC Connector System from ERNI is already in use in a wide range of applications where efficient space utilization, packaging density and high system performance are crucial. Here are some ideal applications and unique application features of the SMC:

- Notebook, laptop and portable computers, compact peripherals, portable test and measurement equipment and other small electronic equipment.
- Stacking applications for multiple PC boards e.g. two PC boards fit into 19" subracks and modular assemblies according to DIN 41494.
- Small systems in which PC boards are processed in thruhole, SMT, or hybrid (thru-hole & SMT) technologies.
- Insulation displacement (IDC) socket connectors for .635mm (.025") ribbon cable.
- Plug connectors with ejector latches for a positive lock when mating to the IDC socket connectors.
- New mounting techniques such as pre-installed rivets or integral, molded-in mounting pegs to assure alignment and attachment to the PC board.
- New accessories such as an insertion cover for efficient manual or robotic assembly and application tooling to assure reliable cable and PCB assembly processing.

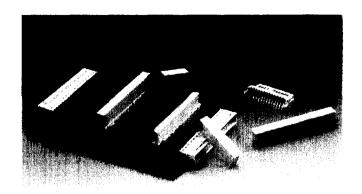
Key Features

- Dual-sided contact spring for a consistent and reliable connection.
- Range of sizes includes 12, 26 and 50 positions.
- Wide entry area for reliable mating.
- Integral anti-twist design to prevent contact damage.
- High temperature liquid crystal polymer (LCP) plastic housing.
- Integral, molded-in coding slots.
- Three termination types available:

Thru-hole, straight and 90° SMT, straight and 90°

IDC for .635mm (.025") ribbon cable

- · Variety of mounting options for plug and socket connectors for greater design flexibility.
- Light-weight a 50 position connector weighs less than 2 grams (.07 oz.).



Performance and Material Specifications

Number of positions	12, 26, 50
Permissible humidity Test class 65/125/56	Annualaverage ≤80%,max.100%
Operating current * (Amps) at + 20°C ambient + 70°C temperature of: +100°C	1.2 A 0.9 A 0.6 A
Test voltage 50Hz,1min Contact/Contact Contact/Ground	500 V _{eff} 750 V _{eff}
Creepage distance and clearance Contact/Contact Clearance Creepage	≥0.37 mm ≥0.4 mm
Contact resistance	≤20 mΩ

Insulation resistance	≥10 ⁴ MΩ
Minimum contact wipe	2.2mm
Temperature range	-65°C+125°C
Max. temperature load	+285°C for 3 sec.
Shock and vibration	No discontinuity at 20g and 102000Hz
Service life	≥500 mating cycles
Housing material	LCP 30%GV
Connector mating force	Max 25 N
Flammability rating	UL 94 V-0
Connector press-in force (with mounting pegs)	100 N

^{*}The values given refer to simultaneous load on all contacts with the connector loose. Deviations from these figures may occur depending on the application environment.

Specifications for Ribbon cable

The SMC insulation displacement (IDC) socket connector uses a 0.635mm (.025") grid ribbon cable with the following properties:

Insulation material: **PVC**

Individual conductor size: Round wire: Dia. 0.25mm

-20°C...+105°C Temperature range:

1500V

Conductor resistance: max 354 Ω/km min 30MΩxkm

Test voltage:

Insulation resistance:

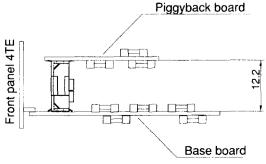
Ordering Information

All ERNI connectors are assigned a unique 6 digit part number which also can be found on the part itself. Please refer to this part number for any inquiry. The following pages of this catalog provide these part numbers along with the product descriptions noted below. Please refer back to this page for any clarifi-

cation of the product description. M=Male plug F=Female socket E.g.: Product name No. of contacts Rows assigne Description: SMC-B-50 M ab

> ERNI Part Number: 033 560 033 561 004 442

Spacing for Stacked Connector Mating



Standard type: straight socket, 90° plug Q = Inverse type: straight plug, 90° socke

Stranded wire 7 x 0.1mm

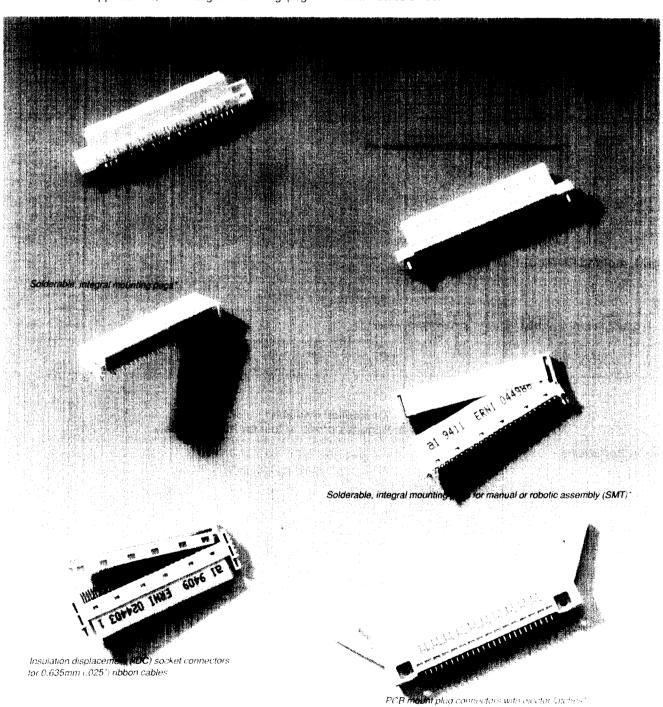


Mounting Options

The SMC series comes with a variety of options for fastening the connectors to a printed circuit board (PCB). The SMC connectors for PCB-to-PCB connecting, thru-hole solder and surface mount (SMT) terminations come with round hole mounting flanges for screw or rivet mounting to the PCB. These thru-hole or SMT versions are also offered with pre-installed rivets. Another mounting option features integral molded—in mounting pegs for alignment and fastening to the PCB. For SMT applications, the integral mounting peg in-

cludes a metal lead for additional mechanical attachment during the SMT soldering process as well as a cover for manual or robotic assembly.

The SMC plug connectors for cable–to–PCB connecting are available with Ejector Latches for a positive lock when fully mated to the insulation displacement (IDC) socket connector. For additional information or applications please contact the ERNI sales office.



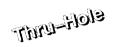
SMC Type B Standard Design – 2 row; 12, 26 or 50 contacts

Plug and Socket Connectors with Thru-hole Solder Connection Terminals and Various Mounting Options

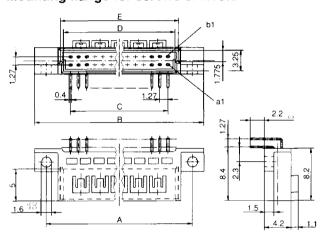
Dimensional drawings

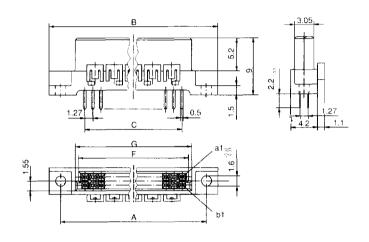
Plug connector

Socket connector

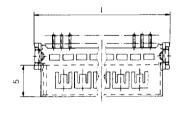


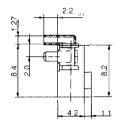
Mounting flange for screws or rivets

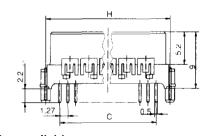


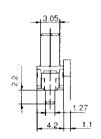


Integral, molded-in mounting pegs



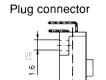




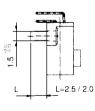


One option available: Option A: Requires press—in tool for PCB assembly

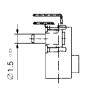
Mounting Variations







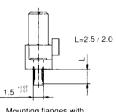
Mounting flanges with pre-installed rivets



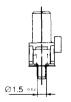
Integral mounting pegs

Socket connector

Mounting flanges for screws or rivets



Mounting flanges with pre-installed rivets



Integral mounting pegs

No. of Contacts	A ±0.05	В	С	D	E	F	G ±0.03	Н	l
12	13.97	17.77	6.35	8.57	9.57	8.37	9.37	10.77	12.7
26	22.86	26.661	15.24	17.46	18.46	17.26	18.26	19.66	21.6
50	38.1	41.9	30.48	33.7	34.7	33.5	34.5	34.9	36.8



Dimensional drawings found on page 4 or 12, illustrations found on page 3.

Plug and Socket Connectors with *Thru-hole Solder Connection Terminals* and Various Mounting Options

Versions	Plug as and states as it is a	
	SMC-B M ab	SMC-B F ab
Lind-Hole		
1111-		
Number of Confacts		12 26 50
Round hole mounting flanges (screw or rivet mounting) Hole size:	033 560 033 561 004 442	033 562 033 563 004 441
Dia. 1.6mm	Dimensional drawing see page 4	Illustration see page 3
Round hole mounting flanges	053 179 053 180 053 181	053 182 053 183 053 184
With pre-installed rivets for 1.0mm PC board thickness	PC board thickness 1.0mm Dimensional drawing see page 4	PC board thickness 1.0mm Illustration see page 3
Round hole mounting flanges With pre-installed rivets	053 185 053 186 053 187	053 188 053 022 044 651
for 1.6mm PC board thickness	PC board thickness 1.6mm	PC board thickness 1.6mm
Integral, molded-in mounting pegs Option A (Includes metal leads for optional soldering) Requires press—in tool (see page 15)	O53 189 O53 190 O53 191 Dimensional drawing see page 4	053 192 053 193 053 194
Ejector latches for mating to IDC socket Round hole mounting flanges (screw or rivet mounting) Hole size: 1.6mm	053 195 053 196 034 517	
Ejector latches for mating to IDC socket	053 197 053 198 053 199	
With pre-installed rivets for 1.0mm PC board thickness	PC board thickness 1.0mm Dimensional drawing see page 12	
Ejector latches for mating to IDC socket	053 200 053 201 053 202	
With pre-installed rivets for 1.6mm PC board thickness	PC board thickness 1.6mm Dimensional drawing see page 12	

Notes:

- The termination length of 2.2mm is suitable for PC boards with thickness 1.6–2.0mm. Please contact the ERNI sales office for other termination length options.
- For versions with integral coding feature, please contact ERNI sales office.
- Dimensional drawings for plug connectors with ejector latches for mating to IDC socket can be found on page 282.
- Recommended PCB drill hole dimension for thru
 hole lead: 0.65+0.02mm.
- Required test dimension for plated thru-hole is 0.54mm.
- Information on application tooling for pressing in the mounting pegs can be found on page 285.

SMC Type B Standard Design – 2 row; 12, 26 or 50 contacts

Plug and Socket Connectors with SMT Connection Terminals and Various Mounting Options

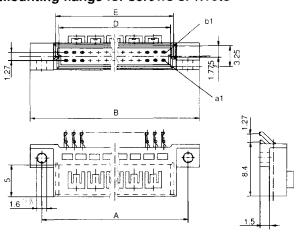
Dimensional drawings

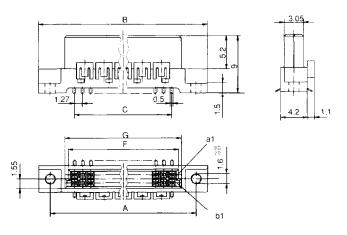
Plug connector

Socket connector

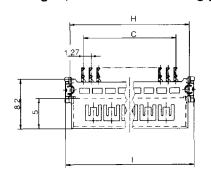


Mounting flange for screws or rivets

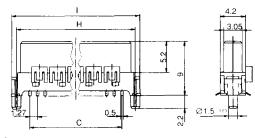




Integral, molded-in mounting pegs





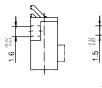


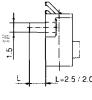
Two options available:

Option A: requires press—in tool for PCB assembly Option B: for manual or robotic assembly

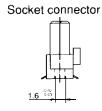
Mounting Variations

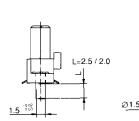












Mounting flanges

Mounting flanges with pre-installed rivets

Integral mounting pegs

Mounting flanges for screws or rivets

Mounting flanges with pre-installed rivets

Integral mounting pegs

No. of Contacts	A ±0.05	В	С	D	E	F	G ±0.03	Н	1
12	13.97	17.77	6.35	8.57	9.57	8.37	9.37	10.77	12.7
26	22.86	26.66	15.24	17.46	18.46	17.26	18.26	19.66	21.6
50	38.1	41.9	30.48	33.7	34.7	33.5	34.5	34.9	36.8



Dimensional drawings found on page 6 or 12, illustrations found on page 3.

Plug and Socket Connectors with SMT Connection Terminals and Various Mounting Options

Versions :	Plug connectors	Socket connectors
	SMC-B M ab	SMC-B F ab
SMT		
Number of Contacts	12 26 50	12 26 50
Round hole mounting flanges	033 564 033 565 004 862	033 566 033 567 004 861
(screw or rivet mounting) Hole size: Dia. 1.6mm	Dimensional drawing see page 6	Illustration see page 3
Round hole mounting flanges	053 203 053 204 034 230	053 205 053 206 053 207
With pre-installed rivets for 1.0mm PC board thickness	PC board thickness 1.0mm Dimensional drawing see page 6	PC board thickness 1.0mm Illustration see page 3
Round hole mounting flanges	053 208 053 209 033 690	053 023 053 210 034 427
With pre-installed rivets for 1.6mm PC board thickness	PC board thickness 1.6mm Dimensional drawing see page 6	PC board thickness 1.6mm Illustration see page 3
Integral, molded-in mounting pegs Option A (Includes metal leads for optional soldering) Requires press-in tool (see page 15)	053 211 053 212 053 213 Dimensional drawing see page 6	053 214 053 215 053 216
Integral, molded-in mounting pegs Option B For manual or robotic assembly (Includes metal leads for optional soldering)		044 984 053 220 053 221
Ejector latches for mating to IDC socket	053 223 053 224 033 606	
With round hole mounting flange for screw or rivet mounting	Dimensional drawing see page 12	
Ejector latches for mating to IDC socket	053 225 053 226 053 227	
With pre-installed rivets for 1.0mm PC board thickness	PC board thickness 1.0mm Dimensional drawing see page 12	
Ejector latches for mating to IDC socket	053 228 053 229 053 230	
With pre-installed rivets for 1.6mm PC board thickness	PC board thickness 1.6mm Dimensional drawing see page 12	

Notes

- For versions with integral coding feature, please contact ERNI sales office.
- Dimensioned drawings for plug connectors with ejector latches for mating to IDC socket can be found on page 282.
- Oval or square soldering pads are recommended
- The SMT connector's terminal leads have been prestressed to provide a more flexible lead to accommodate the surface variations of the SMT solder pad.
- Information on application tooling for pressing in the mounting pegs can be found on page 285.

SMC Type Q 50

Inverse Design - 2 row; 12, 26 or 50 contacts

Plug- and Socket Connectors with Thru-hole Solder Connection Terminals and Various Mounting Options

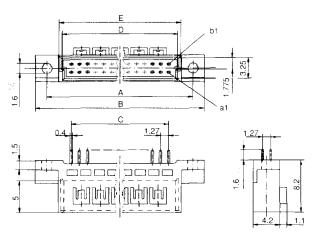
Dimensional drawings

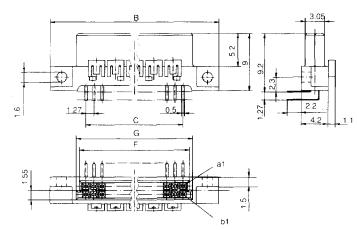
Plug connector

Socket connector

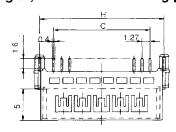


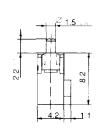
Mounting flange for screws or rivets

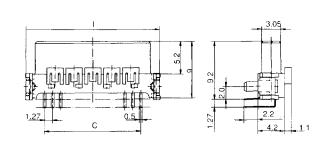




Integral, molded-in mounting pegs



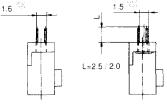




One option available:
Option A: requires press-in tool for PCB assembly

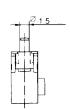
Mounting Variations

Plug connector



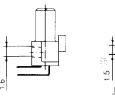


Mounting flanges with pre-installed rivets

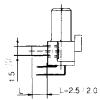


Integral mounting pegs

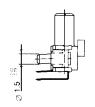
Socket connector



Mounting flanges for screws or rivets



Mounting flanges with pre-installed rivets



Integral mounting pegs

No. of Contacts	A ±0.05	В	С	D	E	F	G ±0.03	Н	ı
12	13.97	17.77	6.35	8.57	9.57	8.37	9.37	10.77	12.7
26	22.86	26.66	15.24	17.46	18.46	17.26	18.26	19.66	21.6
50	38.1	41.9	30.48	33.7	34.7	33.5	34.5	34.9	36.8



Dimensional drawings found on page 8 or 12, illustrations found on page 3.

Plug and Socket Connectors with *Thru-hole Solder Connection Terminals* and Various Mounting Options

The state of the s		ars and various wounting Options
Versions (1911), in	Plug Ganterooles	
	SMC-Q M ab	SMC-Q F ab
Lun-yloja		
Jan		

Number of Contacts		12 26 50
Round hole mounting flanges	033 568 033 569 004 901	033 574 033 575 004 443
(screw or rivet mounting) Hole size: Dia. 1.6mm	Dimensional drawing see page 8	Illustration see page 3
Round hole mounting flanges	053 231	053 234 053 235 053 236
With pre-installed rivets for 1.0mm PC board thickness	PC board thickness 1.0mm Dimensional drawing see page 8	PC board thickness 1.0mm Illustration see page 3
Round hole mounting flanges		
With pre-installed rivets for	053 021 053 237 044 652	053 238 053 239 044 650
1.6mm PC board thickness	PC board thickness 1.6mm Dimensional drawing see page 8	PC board thickness 1.6mm
Integral, molded-in mounting pegs		
Option A (Includes metal leads for	053 240 053 241 053 242	053 243 053 244 053 245
optional soldering) Requires press-in tool (see page 15)	Dimensional drawing see page 8	Illustration see page 3
Ejector latches for mating to IDC socket	053 246 053 247 034 516	
With round hole mounting flange for screw or rivet mounting.	Dimensional drawing see page 12	
Ejector latches for mating to IDC socket	053 248 053 249 053 250	
With pre-installed rivets for 1.0mm PC board thickness	PC board thickness 1.0mm Dimensional drawing see page 12	
Ejector latches for mating to IDC socket	053 251 053 252 053 253	
with pre-installed rivets for 1.6mm PC board thickness	PC board thickness 1.6mm Dimensional drawing see page 12	

Notes:

- For versions with integral coding feature, please contact ERNI sales office.
- Dimensioned drawings for plug connectors with ejector latches for mating to IDC socket can be found on page 282.
- Recommended PCB drill hole dimension for thru-hole lead: 0.65+0.02mm.
- Required test dimension for plated thru-hole is 0.54mm
- Information on application tooling for pressing in the mounting pegs can be found on page 285.

SMC Type Q

Inverse Design – 2 row; 12, 26 or 50 contacts

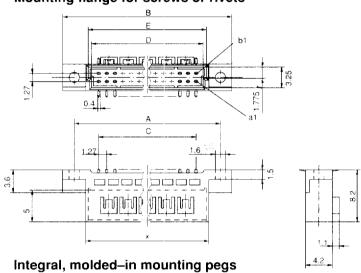
Plug connectors with SMT Connection Terminals and Various Mounting Options

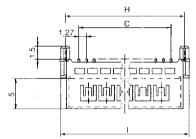
Dimensional drawings

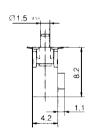
Plug connector

Socket connector currently not available

Mounting flange for screws or rivets





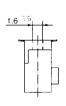


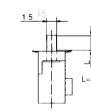
Two options available:

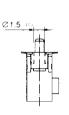
Option A: requires press—in tool for PCB assembly Option B: for manual or robotic assembly

Mounting Variations

Plug connectors







Mounting flanges for screws or rivets

Mounting flanges with pre-installed rivets

Integral mounting pegs

No. of Contacts	A ±0.05	В	С	D	E	Н	I
12	13.97	17.77	6.35	8.57	9.57	10.77	12.7
26	22.86	26.66	15.24	17.46	18.46	19.66	21.6
50	38.1	41.9	30.48	33.7	34.7	34.9	36.8



Dimensional drawings found on page 10 or 12, illustrations found on page 3.

Plug Connectors with SMT Connection Terminals and Various Mounting Options

Versions	: Plug connectors :::	Socket connectors
	SMC-Q M ab	
SMT		Currently not available
Number of Contacts	28 50 50	12 26 50 10
Round hole mounting flanges	033 572 033 573 004 863	
(screw or rivet mounting) Hole size: Dia. 1.6mm	Dimensional drawing see page 10	
Round hole mounting flanges	053 254 053 255 053 256	
With pre-installed rivets for 1.0mm PC board thickness	PC board thickness 1.0mm Dimensional drawing see page 10	
Round hole mounting flanges	053 257 053 024 034 824	
With pre-installed rivets for 1.6mm PC board thickness	PC board thickness 1.6mm Dimensional drawing see page 10	
Integral, molded-in mounting pegs Option A (Includes metal leads for optional soldering) Requires press—in tool (see page 15)	053 258 053 259 053 260	
Integral, molded-in mounting pegs Option B For manual or robotic assembly (Includes metal leads for optional soldering)		
Ejector latches for mating to IDC socket	053 264 053 265 033 607	
With round hole mounting flange for screw or rivet mounting.	Dimensional drawing see page 12	
Ejector latches for mating to IDC socket	053 266 053 267 053 268	
With pre-installed rivets for 1.0mm PC board thickness	PC board thickness 1.0mm Dimensional drawing see page 12	
Ejector latches for mating to IDC socket	053 269 053 270 053 271	
With pre-installed rivets for 1.6mm PC board thickness	PC board thickness 1.6mm Dimensional drawing see page 12	

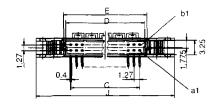
Notes

- For versions with integral coding feature, please contact ERNI sales office.
- Dimensioned drawings for plug connectors with ejector latches for mating to IDC socket can be found on page 282.
- Oval or square soldering pads are recommended (see page 14)
- The SMT connector's terminal leads have been prestressed to provide a more flexible lead to accommodate the sureface variations of the SMT solder pad.
- Information on application tooling for pressing in the mounting pegs can be found on page 285.

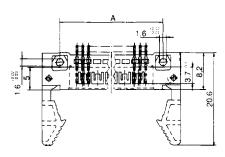
SMC Type B & Q Plug Connectors for Cable—to–PCB Connecting

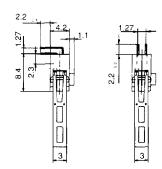
PCB Mount Plug connectors with *Ejector Latches* for Mating to Insulation Displacement (IDC) Socket Connectors **Dimensional drawings**

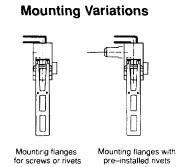
Plug connector



Part numbers for the various plug configurations with options for mounting flanges can be found on pages 5, 7, 9 or 11 depending on the Type (Standard or Inverse) and the PCB mounting (Thru-hole or SMT)





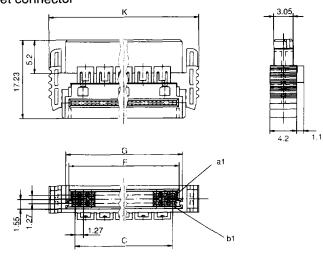


SMC Type B

Insulation Displacement (IDC) Socket Connectors

Socket Connector with *Insulation Displacement (IDC) Terminals* Contacts for 0.635mm (.025") grid Ribbon Cables **Dimensional drawings**

Socket connector





No. of contacts	A ±0.05	С	D	E	F	G ±0.03	J ±0.1	K ±0:1
12	13.97	6.35	8.57	9.57	8.37	9.37	21.77	14.57
26	22.86	15.24	17.46	18.46	17.26	18.26	30.66	23.46
50	38.1	30.48	33.7	34.7	33.5	34.5	45.9	38.7



Dimensional drawings found on page 12, illustrations found on page 3.

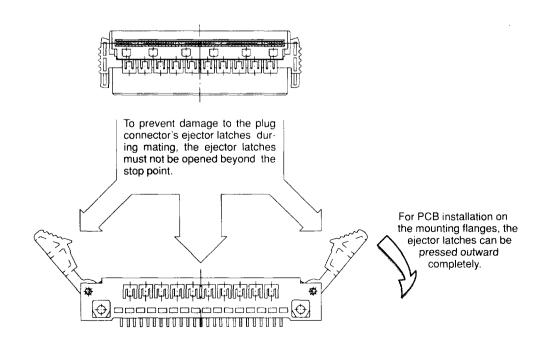
Socket Connector with Insulation Displacement (IDC) Terminals for 0.635mm (.025") Ribbon Cables

Versions At the second	Plugaria de la composición de la compo	Socket connectors
DC	Part numbers for the various plug configurations with options for mounting flanges can be found on pages 5, 7, 9 and 11 depending on the Type (Standard or Inverse) and the PCB mounting (thru-hole or SMT).	SMC-B F ab
Number of Contacts	12 23 56	- 14 s 3 ₂₆ , 26 s - 50 js -
The IDC socket connector can mate with any SMC plug connector with or without ejector latches.	not available	Dimensional drawing see page 12 Illustration see page 3

Notes:

- For information on appropriate ribbon cable, see pages 2 and 15.
- The IDC socket connector can mate with any SMC plug connector with or without ejector latches.
- During PCB installation (with screws or rivets) of the mounting flanges of the straight plug connectors with ejector latches, the ejector latches should be pressed outward completely to provide clearance around the mounting flange (*Please use caution when pressing the ejectors to this outward position*). After completing PCB mounting of the mounting flange, the ejector latches should be returned to the original open, stop point position.
- Prior to mating an IDC socket connector to a PCB mount plug connector with ejector latches, the latches must be in the open position but **not beyond the stop point** (see diagram below).
- For information on insulation displacement (IDC) tooling, see page 15.

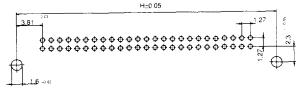
Important note on the use of the plug connectors with ejector latches.



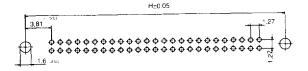
Suggested Mounting Hole Patterns

Dimensional drawings

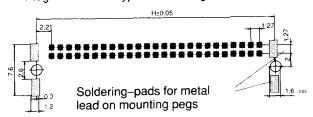
Plug connectors Type B (solder) Socket connectors Type Q (solder)



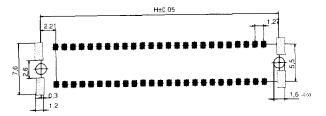
Plug connectors Type Q (solder) Socket connectors Type B (solder)



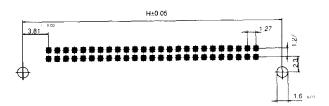
Plug connectors Type B with integral mounting pegs (SMT)



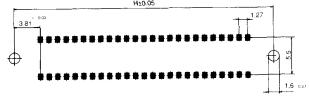
Plug connectors Type Q with integral mounting pegs (SMT) Socket connectors Type B with integral mounting pegs (SMT)



Plug connectors Type B (SMT)



Plug connectors Type Q (SMT) Socket connectors Type B (SMT)



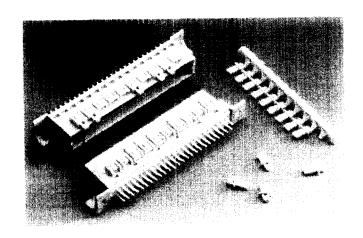
The metal lead of the mounting pegs can be soldered to a SMT pad.

Ordering Information – Coding Accessories

SMC connectors have an integral coding system. Both the plug and socket connectors have molded slots on the sides into which coding tabs can be inserted. This provides for multiple coding arrangements.

For example, the SMC 50 position connectors have up to 252 coding options.

Coding Tabs (10 per assembly)		
Part Number	433 620	





Ordering Information, Ribbon Cable

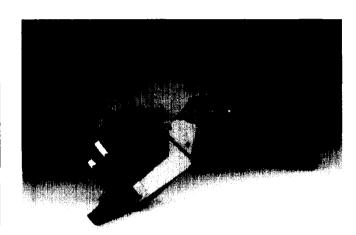
	Part no., 50 conductor	Part no., 26 conductor	Part no., 12 conductor
Part no. for 1 meter	034 575	053 787	053 786

Ordering Information, Application Tooling for Mounting Pegs

Mounting pegs are pressed into the drill holes of the PC board with the aid of a mounting peg insertion tool. This tool can be installed onto a manual hand tool or an arbor press.

Mounting Peg Insertion Tool			
No. of Contacts	12	26	50
for hand tool	053 286	053 285	053 284
for arbor press	053 142	053 141	053 118

Manual Hand Tool for use with Mounting Peg Insertion Tool			
Part number	053 283		



Ordering Information, Tooling for Rivet Mounting

SMC connectors can be supplied with pre—installed, 1.5mm (.059") rivets in the connector's round hole mounting flanges. Standard rivet tooling or the following tooling is recommended.

Rivet Tooling Fixtures			
No. of contacts	12	26	50
for hand tool	053 289	053 288	053 287
for arbor press	053 296	053 295	651 050

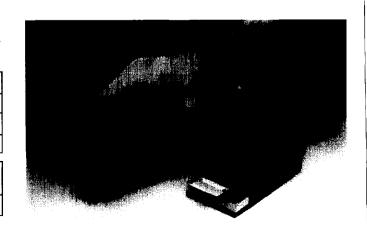
Manual Hand Tool for use with Rivet Tooling Fixtures			
Part number	053 283		

Ordering Information, Insulation Displacement (IDC) Tooling

Cable alignment fixtures are necessary for proper IDC terminating of 0.635mm (.025") cable to the SMC socket connectors.

Cable Alignment Fixture for IDC Termination			
No. of contacts	12	26	50
for hand tool	053 292	053 291	053 290
for arbor press	053 294	053 293	034 828

Manual Hand Tool for use with Cable Alignment Fixtures for IDC		
Part number 053 283		

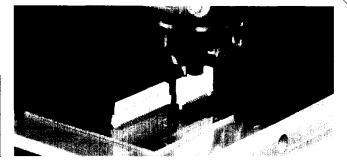




Ordering Information – Connector Covers for Automated Assembly

Covers for the automated PC board assembly of SMC connectors are available. These covers are placed over the mating side of the connector for compatibility with robotic, pick and place assembly equipment (vacuum suction type).

Mounting cover			
Number of Contacts	12	26	50
Part no. for plugs	on request		
Part no. for sockets	044 913	044 912	044 911



Additional Information

SMC Connector System Highlights

The continued expansion of electronic applications has increased the demand for high density, high performance interconnection products. To meet these emerging needs, ERNI has engineered the SMC Board-to-Board and Cable-to-Board Connector System.

Based on more than 40 years of experience, the SMC is a miniature connector system with a 1.27mm (.050") centerline, permitting a high degree of design and packaging versatility. There are three types of termination: Thru—hole straight and right angle; SMT straight and right angle; and IDC for .635mm (.025") ribbon cable. ERNI's SMC connectors also are available in a range of sizes to satisfy your individual application needs.

The SMC connector system offers a variety of options for reliable PC board interconnection. For thru—hole and surface mount terminations (SMT), these connectors come with round hole mounting flanges for screw or rivet mounting. An additional mounting option features integral molded—in mounting pegs for alignment and fastening to the PCB. For SMT applications, the integral mounting peg includes a metal lead for additional mechanical attachment during the SMT soldering process as well as a cover for manual or robotic assembly.

With ever–increasing packaging density requirements, ERNI continues to explore new interconnection alternatives. A successful track record and thousands of satisfied customers guarantees our product performance and customer satisfaction. We invite your inquiry and look forward to helping you achieve a reliable, cost–effective system design.

