





# 1.27 mm Connectors



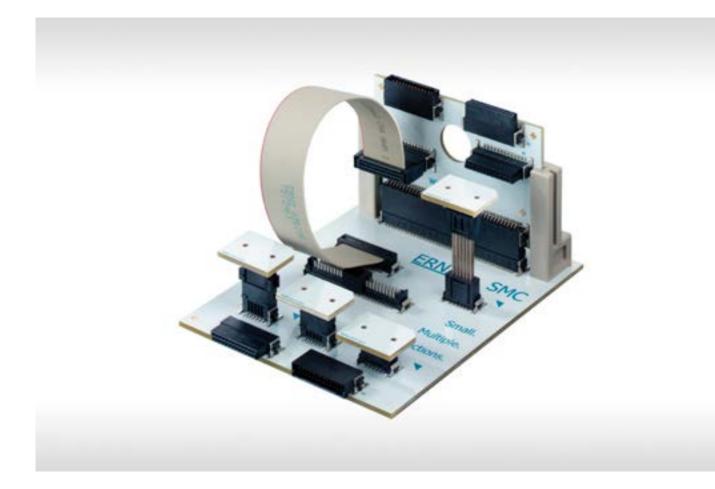
# SMC - SMALL GRID, BIG POSSIBILITIES

Limited space and high performance demands are characteristics of many modern electronic systems, all of which the connectors must accommodate. There is a corresponding demand for compact, secure, and reliable connectors, with high signal integrity and a relatively high current-carrying capacity.

The comprehensive SMC range helps meet these requirements. The high-performance SMT connectors come in a number of different designs, heights, and contact densities in a 1.27 mm grid.

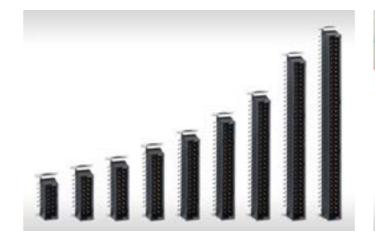
The basic design criteria for the SMC series include double-sided spring contacts for toprate contact properties and maximum contact reliability, a high-temperature resistant insulator with polarization and insertion chamfers, and a very high mating reliability.

The contact design exhibits a virtually continuous impedance profile and enables secure data transmission rates of up to 3 Gbit/s (differential) if the system is suitably designed.



# **FEATURES**

Pitch 1.27 mm	
No. of Pins	12, 16, 20, 26, 32, 40, 5
Termination technology	SMT, individual variant
	Data rate up to 3 Gbit
	Current rating up to 1.
	Board-to-Board conne
	- stacked (Mezzanine)
Applications	- orthogonal
	- coplanar
	Wire-to-Board connec
	- pluggable
	- permanent
	Male connectors, vert
	Female connectors, ve
Variants	Board-to-Board adapt
Variants	Board-on IDC
	Cable assembly:
	- Female connectors I
	Lockable connectors
Caracial consistent	Pressfit male connecto
Special versions	Reduced locating peg
	First mate/early break



50, 68, 80

nts in pressfit technology

t/s

1.7 A per contact nections:

)

ections (ribbon cable):

tical and right angle vertical and right angle oter

IDC, right angle

tors gs / without pegs k contacts



# **CAPABILITIES**







Board-to-Board adapter: enhanced board-to-Board heights

Extender card (coplanar)

Orthogonal boards







# Wire-to-Board (pluggable)

Wire-to-Board (permanent): Board-on IDC

# **ADVANTAGES**

### High Reliable Contact Design

- reliable, dual-beam female contact
- twisted contact tulip (90°)
- rolled, homogeneous surface, provides for more secure contact mating
- wide contact surfaces between the mated pairs
- extremely low surface roughness significantly reduces abrasion
- low contact resistance

# **Polarization / Mating Face**

- mating face polarization guards against mismating and incorrect connection
- more secure mating due to insertion chamfers in the capture range
- distinctive guide elements for precise insertion

### **Robust Solder Clips**

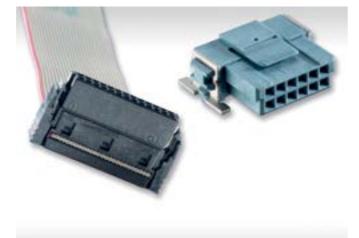
- outstanding retention forces on the circuit board
- soldering brackets absorb mechanical stress and are able to withstand high shock and vibration loads
- documented shear and tear-off forces build trust in surface-mounted connectors (e.g., shear force: min. 1000 N; tear-off force: min. 100 N)



# **ADVANTAGES**

### **Interlocking Snap-In**

- lockable printed circuit board (PCB) and cable connectors
- secured against heavy vibration and shock loads
- snap-in: locking when mating; can only be released with tools
- cable connector: integrated locking lever; can be manually released without tools
- protection against accidental release of Wire-to-Board connections
- cable guide provides for strain relief



# PROCESSING

### **Tape and Reel Packaging**

- transport safe packaging
- automatic assembly

# Automatic Assembly and Reflow Soldering

• for efficient processing on modern assembly lines

### **Snap-In B-to-B Adapter**

- single-sided locking of Board-to-Board adapters on low-profile female connectors
- enables the mating and release of two boards always on one specified side



### **Backside Reflow Soldering**

• capable of two sided reflow soldering

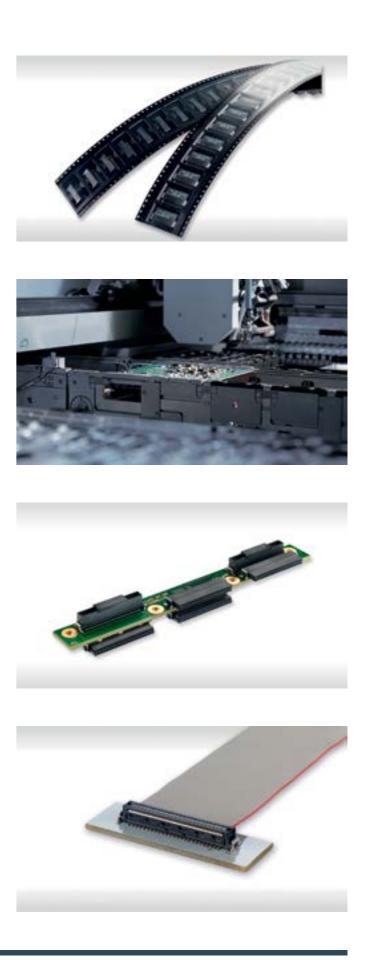
# **Locating Pegs**

- geometrically heterogeneous locating pegs for precise positioning on the circuit board
- enables excellent compensation of PCB holes for both positive and negative tolerances



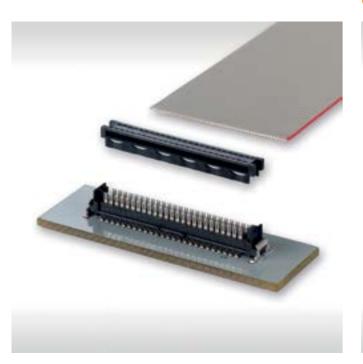
# Permanent Wire-to-Board Connection (Board-on IDC)

• automated and cost-efficient assembly of ribbon cables

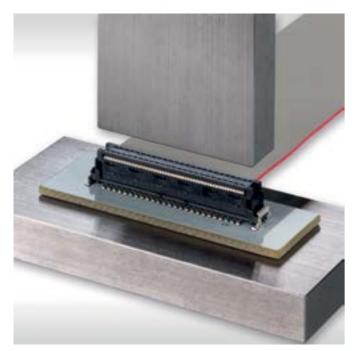


# **BOARD-ON IDC**

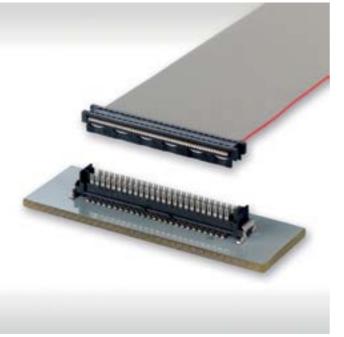
# **Automated Assembly**



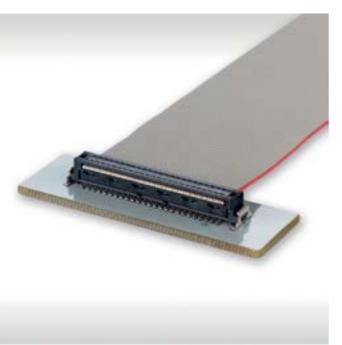
**Press-in without Special Tool** 



Feeding of the Ribbon Cable and Cable Guide

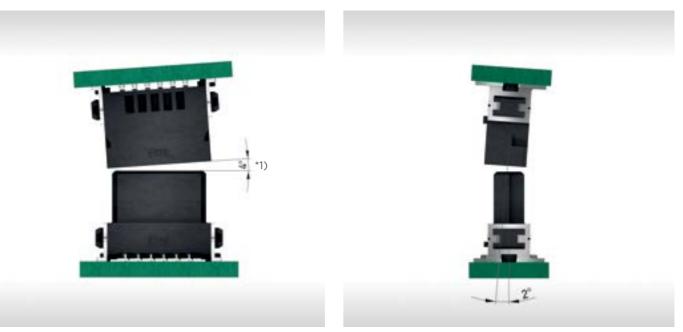


### **Processed Connection**



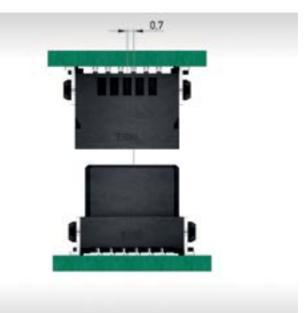
# **MATING CONDITIONS**

# Allowed Inclination for a more Secure Self-Centering



\*1) depends on no. of pins and misalignment tolerance

# Allowed Misalignment Tolerances for a more Secure Self-Centering





# **BOARD-TO-BOARD HEIGHT**

# **Stacked Boards / Mezzanine**



Board-to-Board Height	Male Stacking Height	Female Stacking Height
8.00 - 9.50 mm	1.75 mm	6.25 mm
9.50 - 11.00 mm	3.25 mm	6.25 mm
10.80 - 12.30 mm	1.75 mm	9.05 mm
12.30 - 13.80 mm	3.25 mm	9.05 mm
13.90 - 15.40 mm	4.85 mm	9.05 mm
15.40 - 16.90 mm	1.75 mm	13.65 mm
16.90 - 18.40 mm	3.25 mm	13.65 mm
18.50 - 20.00 mm	4.85 mm	13.65 mm



Board-to-Board Adapter 20 mm	Female Stacking Height
20 mm	2 x 6 25 mm
	2 X 0.25 [1][1]
22 mm	2 x 6.25 mm
24 mm	2 x 6.25 mm
26 mm	2 x 6.25 mm
28 mm	2 x 6.25 mm
30 mm	2 x 6.25 mm
32 mm	2 x 6.25 mm
34 mm	2 x 6.25 mm
36 mm	2 x 6.25 mm
38 mm	2 x 6.25 mm
38 mm (wipe length)	2 x 6.25 mm
	22 mm 24 mm 26 mm 28 mm 30 mm 32 mm 34 mm 36 mm 38 mm

# **ELECTRICAL AND MECHANICAL CHARACTERISTICS**

### **Technical Data**

Description	Standard	PCB Connectors, Cable Assemblies, B-to-B Adapter	Board-on IDC (Ribbon Cable AWG 30, 250 mm)	
Climate category	DIN EN 60068-1 test b	55 / 150 / 56	55 / 125 / 56	
		-55 / 125 °C (PCB Connectors)		
Temperature range		-55 / 125 °C (TPE-S Cable)	-55 / 125 °C (TPE-S Cable)	
Current rating per contact	IEC60512 test 5b		C ambient temperature: ith optimized layout)	
Air- and creepage distance		contact - conta	act min. 0.4 mm	
Operating voltage	IEC 60664	The permissible operating voltages depend on the customer applic and on the applicable or specified safety requirements. Insulation of dination according to IEC 60664-1 has to be regarded for the comp electrical device. Therefore, the maximum creepage and clearance of tances of the mated connectors are specified for consideration as a of the whole current path. In practice, reductions in creepage or clear ance distances may occur due to the conductive pattern of the prin board or the wiring used, and have to be taken into account separa As a result the creepage and clearance distances for the application be reduced compared to those of the connector.		
Dielectric strength	IEC 60512 test 4a	contact - con	ntact 500 V <sub>rms</sub>	
Contact resistance	IEC 60512 test 2a	< 25 mΩ < 35 mΩ (Board-to-Board Height 18.50 - 20.00 mm) < 10 mΩ (cable assemblies)	< 10 mΩ	
Insulation resistance	IEC 60512 test 3a	> 10	<sup>04</sup> MΩ	
Vibration, sine	IEC 60512 test 6d	10 - 2000 Hz 20 g		
Contact disturbance (while vibration test)	IEC 60512 test 2e	<	1 µs	
Shock halfsine	IEC 60512 test 6c		D g ms	
Contact disturbance (while shock test)	IEC 60512 test 2e	<	1 µs	
Mechanical operation	IEC 60512 test 9a	500 mat	ing cycles	
Insertion and withdrawal force max.	IEC 60512 test 13b	0.5 N pe	er contact	
Gauge retention force	IEC 60512 test 16e	> (	D.1 N	
Processing Conditions				
Hand soldering temperature max.	IEC 60068-2-20	3.5 s at 350 °C		
Dip soldering temperature max.	IEC 60068-2-20	10 s at	260 °C	
Reflow soldering temperature max.	JEDEC J-STD-020	20 - 40 s	at 260 °C	
Coplanarity		< 0.1 mm		



# **ELECTRICAL AND MECHANICAL CHARACTERISTICS**

### **Technical Data**

Description	Standard	PCB Connectors, Cable Assemblies, B-to-B Adapter	Board-on IDC (Ribbon Cable AWG 30, 250 mm)		
Housing Material					
Insulation body			LCP		
CTI value	IEC 112		175		
UL flame rating			UL 94 V-0		
UL file plastic material			E83005		
Contact Material		· ·			
Base material			Cu alloy		
Mating area		gold plating	-		
Termination area			Sn		
Environment Compatibi	lity				
Recycling		no flame-retardant additives,	no flame-retardant additives, no toxic additives allow easy recycling		
Product Approval	· · ·				
UL/CSA			E84703		

Partial LV214 testing for selected SMC configurations done. If you want to know more, please contact TE/ERNI. In general, testings are done according to connector standards. No liability for usage of connectors in the application.

# **ELECTRICAL AND MECHANICAL CABLE CHARACTERISTICS**

# **Technical Data Flat Ribbon Cables**

Description	Standard cable (PVC)	High Temperature Cable (TPE-S)	Halogen-free Cable (Polyolefin TPE-O)	
Cross section	AWG-30/ 7/ 0.06 mm <sup>2</sup>			
Conductor	strai	nded Cu wire, tinned, 7x0.102 / 0	0.06 mm <sup>2</sup>	
Coded wire		available		
Insulation	PVC gray (similar to RAL 78032)	TPE-S gray (similar to RAL 78032)	TPE-O gray (similar to RAL 78032)	
Insulation thickness		min. 0.1mm		
Shore hardness	94 ±2 (Shore A)	52 ±3 (Shore D)	94 ±2 (Shore A) resp. 50 ±3 (Shore D)	
Technical Data				
T	-20/105 °C (fixed)	-60/125 °C (fixed)	-40/105 °C (fixed)	
Temperature range	-10/105 °C (mobile)	-40/125 °C (mobile)	-20/105 °C (mobile)	
Dielectric strength	1500 Vrms	1000 Vrms	1200 Vrms	
Conductor resistance	≤ 350 Ω/km at 20 °C			
Insulation resistance	≥ 20 MΩ x km at 20 °C			
Impedance	125 $Ω$ (wire-wire) 80 $Ω$ (Ground-Signal-Ground)	136 Ω (wire-wire)	110 Ω (wire-wire) 75 Ω (Ground-Signal-Ground)	
Bending cycles (typical)		min. 1 million at 20 x cable diam		
RoHS		compliant		
Flame rating	UL 94 VW-1	IEC 60332-1-2	UL 1581 (Horizontal Flame Test)	





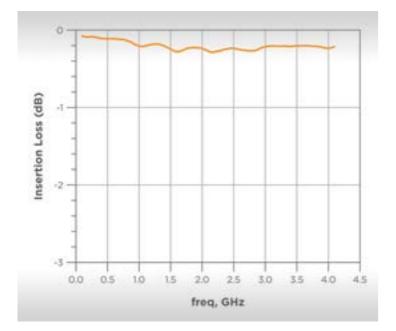
# **HIGH FREQUENCY CHARACTERISTICS**

# **High-Speed Data Transmission**

SMC connectors as solution for unshielded high-speed applications. The practically continuous impedance profile allows for more secure data transmission rates of up to 3 Gbit/s (differential) if the system is suitably designed.

- de-embedded measurement results for the micro backplane/daughter card application
- 50-pin SMC, angled female connector, straight male connector (low profile)
- differential signal transmission

### **Insertion Loss**



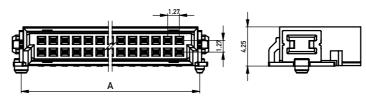


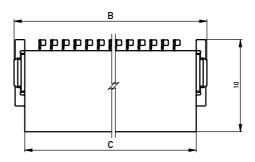
# **RIGHT ANGLE MALE**

# **Product Specification**

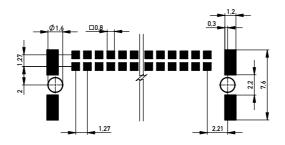
- Surface mount technology (SMT) termination
- dual row connector
- data rates up to 3 Gbit/s
- location pegs for exact board placement
- black insulation body for fast and reliable visual recognition
- automated board assembly
- for available part numbers please refer to our website

### **Dimensional Drawings**

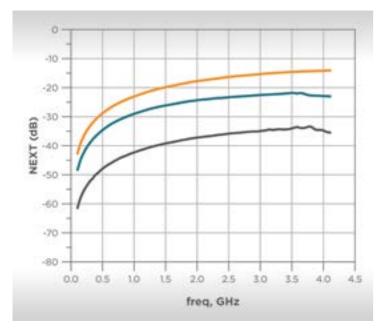




# **Recommended Layout**



# Near End Crosstalk (Next)





Agressor / Victim
 A2_3 / B2_3
 A2_3 / A4_5
 A2_3 / B4_5 (shown above)



No. of Contacts	Α	В	С
12	10.77	12.70	10.35
16	13.31	15.24	12.91
20	15.85	17.78	15.45
26	19.66	21.59	19.26
32	23.47	25.40	23.07
40	28.55	30.48	28.15
50	34.90	36.83	34.50
68	46.33	48.26	45.93
80	53.95	55.88	53.55

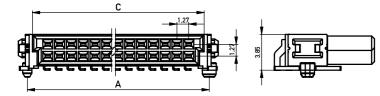
# **RIGHT ANGLE FEMALE**

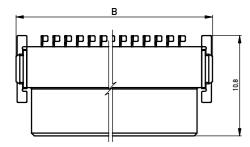
# **Product Specification**

- SMT termination
- dual row connector
- data rates up to 3 Gbit/s
- location pegs for exact board placement
- black insulation body for fast and reliable visual recognition
- automated board assembly
- for available part numbers please refer to our website

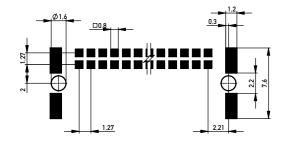


### **Dimensional Drawings**





### **Recommended Layout**



No. of Contacts	Α	В	С
12	10.77	12.70	9.37
16	13.31	15.24	11.91
20	15.85	17.78	14.45
26	19.66	21.59	18.26
32	23.47	25.40	22.07
40	28.55	30.48	27.15
50	34.90	36.83	33.50
68	46.33	48.26	44.93
80	53.95	55.88	52.55

#### All dimensions in mm.

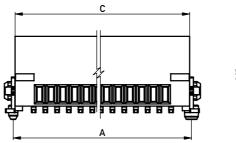
# **VERTICAL MALE**

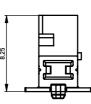
# **Product Specification**

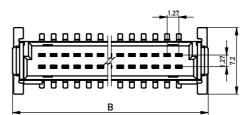
- SMT termination
- dual row connector
- data rates up to 3 Gbit/s
- location pegs for exact board placement
- black insulation body for fast and reliable visual recognition
- automated board assembly
- 3 stacking heights (1.75, 3.25, 4.85 mm)
- for available part numbers please refer to our website

### **Dimensional Drawings**

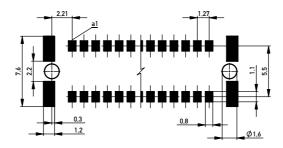
Unmated Stacking Height 3.25 mm







### **Recommended Layout**



16



No. of Contacts	Α	В	С
12	10.77	12.70	10.37
16	13.31	15.24	12.91
20	15.85	17.78	15.45
26	19.66	21.59	19.26
32	23.47	25.40	23.07
40	28.55	30.48	28.15
50	34.90	36.83	34.50
68	46.33	48.26	45.93
80	53.95	55.88	53.55

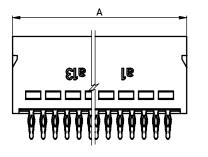
# **VERTICAL MALE PRESSFIT**

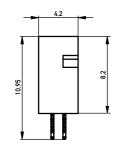
# **Product Specification**

- pressfit termination
- dual row connector
- data rates up to 3 Gbit/s
  black insulation body for fast and reliable visual recognition
- virtually automated board assembly
- stacking height 3.25 mm
- press-in tools and toggle presses available from ERNI
- for available part numbers please refer to our website



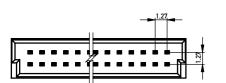
### **Dimensional Drawings**



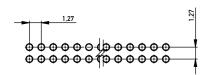


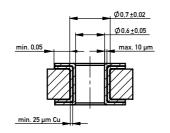
No. of			
Contacts	Α		
12	10.35		
26	19.24		
50	34.48		
68	45.91		
80	53.53		

All dimensions in mm.



# **Recommended Layout | Hole Design**





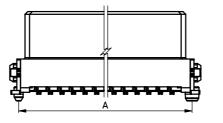
# **VERTICAL FEMALE**

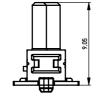
# **Product Specification**

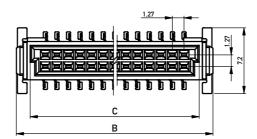
- SMT termination
- dual row connector
- data rates up to 3 Gbit/s
- location pegs for exact board placement
- black insulation body for fast and reliable visual recognition
- automated board assembly
- 3 stacking heights (6.25, 9.05, 13.65 mm)
- for available part numbers please refer to our website

### **Dimensional Drawings**

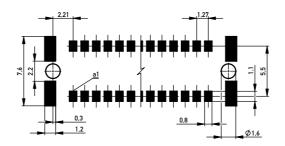
Unmated Stacking Height 9.05 mm



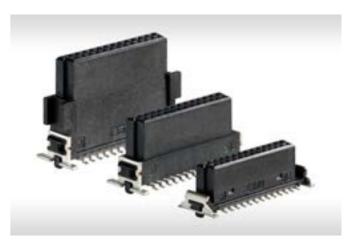




### **Recommended Layout**



18



No. of Contacts	Α	В	С
12	10.77	12.70	9.37
16	13.31	15.24	11.91
20	15.85	17.78	14.45
26	19.66	21.60	18.26
32	23.47	25.40	22.07
40	28.55	30.48	27.15
50	34.90	36.80	33.50
68	46.33	48.20	44.93
80	53.95	55.80	52.55

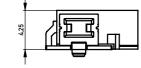
# **RIGHT ANGLE MALE WITH LOCKING SYSTEM**

### **Product Specification**

- two types of interlocking:
- positive lock (blue colored): unlockable i.e. by tool, tip of pen
- friction lock (black colored): unlockable without any tool
- SMT termination
- data rates up to 3 Gbit/s
- location pegs for exact board placement
- automated board assembly
- for available part numbers please refer to our website

# **Dimensional Drawings**

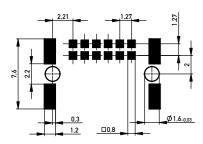
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12,7

# **Recommended Layout**



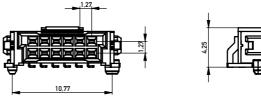


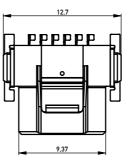
# **RIGHT ANGLE FEMALE WITH LOCKING SYSTEM**

# **Product Specification**

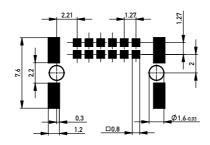
- two types of interlocking:
- positive lock (blue colored): unlockable i.e. by tool, tip of pen
- friction lock (black colored): unlockable without any tool
- SMT termination
- data rates up to 3 Gbit/s
- location pegs for exact board placement
- automated board assembly
- for available part numbers please refer to our website

### **Dimensional Drawings**





# **Recommended Layout**







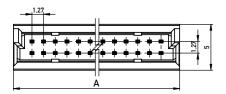
# **BOARD-TO-BOARD ADAPTER**

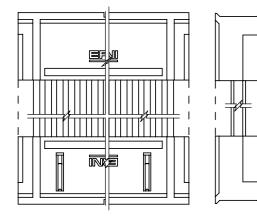
# **Product Specification**

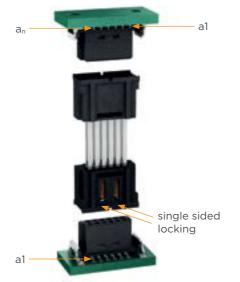
- Board-to-Board adapter for parallel PCB distances of 20-40 mm
- moulded (hotmelt) versions for improved environmental resistance and finger safe protection
- single-sided locking of Board-to-Board adapters on low-profile female connectors
- enables the mating and release of two boards always on one specified side
- for available part numbers please refer to our website

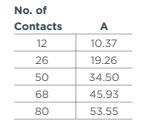


### **Dimensional Drawings**









All dimensions in mm.

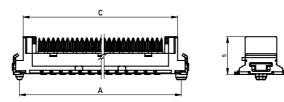
# **BOARD-ON IDC**

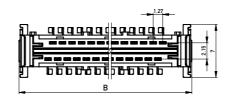
# **Product Specification**

- permanent wire-to-board connection
- SMT and IDC termination
- dual row connector
- data rates up to 3 Gbit/s
- location pegs for exact board placement
- black insulation body for fast and reliable visual recognition
- flat ribbon cables AWG 30
- easy assembly with standard toggle press
- for available part numbers please refer to our website

### Dimensional Drawings | Recommended Layout

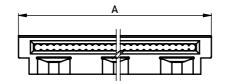
Board-on Connectors



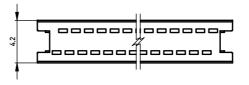




Board-on Cable Guide







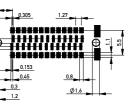
# B-to-B Adapter

(Board-Distance)	в	С
20	3.5	18.2
22	5.5	20.2
24	7.5	22.2
26	9.5	24.2
28	11.5	26.2
30	13.5	28.2
32	15.5	30.2
34	17.5	32.2
36	19.5	34.2
38	21.5	36.2



No. of Contacts	Α	В	С	
12	12.77	14.70	11.78	
26	21.66	23.59	20.67	
50	36.90	38.83	35.91	

All dimensions in mm.



No. of Contacts	Α	В
12	10.78	6.98
26	19.67	15.87
50	34.91	31.11

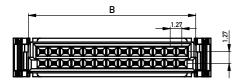
# **CABLE ASSEMBLIES**

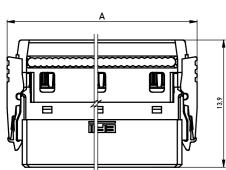
# **Product Specification**

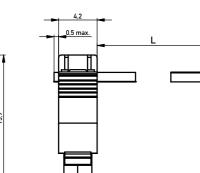
- cable assemblies with IDC female connectors
- ribbon cable AWG 30/7
- three different cable types
- for available part numbers please refer to our website

# **Dimensional Drawings**







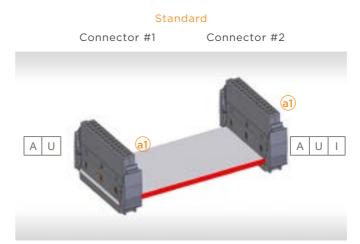


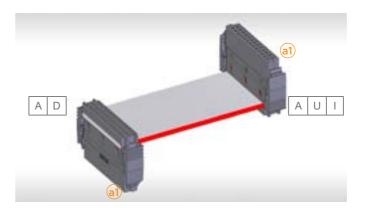
No. of Contacts	Α	В
12	12.69	9.37
16	15.23	11.91
20	17.77	14.45
26	21.58	18.26
32	25.39	22.07
40	32.53	27.15
50	38.88	33.50
68	50.31	44.93
80	57.93	52.55

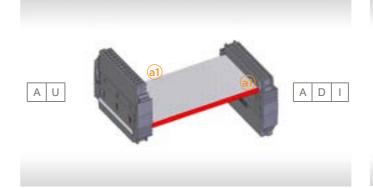
All dimensions in mm.

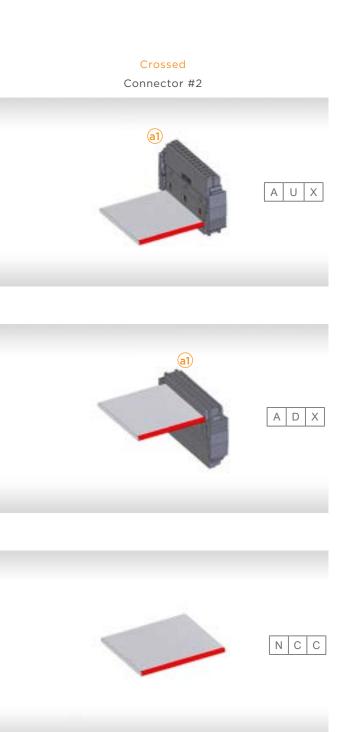
# **CABLE ASSEMBLIES**

# Configurations



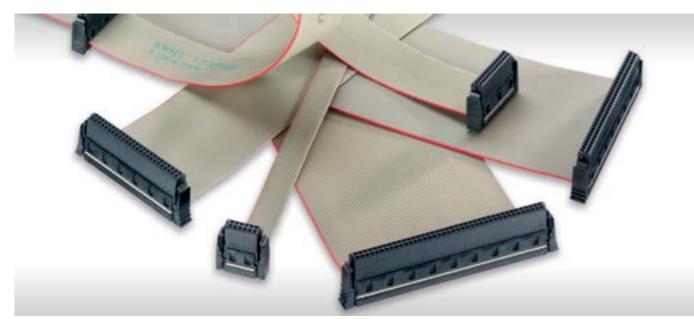






# **CABLE ASSEMBLIES**

### **Cable Types**



### Standard

- standard ribbon cable with PVC insulation
- AWG 30/7
- excellent abrasion and cut resistance
- temperature range: -10 °C to +105 °C
- UL2678

# **High Temperature**

- high temperature resistant ribbon
- cable with TPE-S insulation
- AWG 30/7
- excellent abrasion and cut resistance
- temperature range: -40 °C to +125 °C

### Halogen-free

- halogen-free ribbon cable with TPE-O insulation
- AWG 30/7
- excellent abrasion and cut resistance
- oil-resistant (ASTM 2)
- temperature range: -20 °C to +105 °C
- UL22092

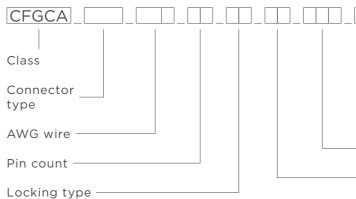






# **CABLE ASSEMBLIES**

# **Ordering Information Standard Cable Assemblies** Options Length in mm Isolation of wire Orientation connector right Orientation connector left



### Example for a standard configuration:

CFGCA	SMC	30 R	12	LL	AU	AUI	_

Ordering code field	Number of digits	Example configuration	Composition of the confi	guration
Class	5	CFGCA	ConFiGurable Cable Ass	embly
Connector type	3	SMC	SMC	
	7	700	1st and 2nd column:	30
AWG wire	3	30R	3rd column:	Ribbon Cable
Pin count	2	12	12, 16, 20, 26, 32, 40, 50	, 68, 80
	2		Locking Latches	
Locking type	2	LL	Secure Lock	
	2		Angeled Up	
Orientation connector left	2	AU	Angeled Down	
			1st and 2nd column:	Angeled Up
		AUI		Angeled Down
Orientation connector right	3			Not ConneCted
			3rd column:	I-connected (1:1)
				X-connected (1:N)
			<b>PVC</b> : -10 °C to +105 °C	
Isolation of wire	2 - 4	PVC	<b>TPE</b> : -40 °C to +125 °C	
			<b>PO</b> : -20 °C to +105 °C, ha	alogen free
Length in mm	4	0175	175 mm / 25 - 2500 mm possible	
			1st column:	Asymmetric
Options		ANN		<b>S</b> ymmetric
	3		2nd and 3rd column:	custom <b>PR</b> int
				<b>UL</b> Label
				Print ad UL Label
				No print No UL label

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# PVC\_0175\_ANN

# **CABLE ASSEMBLIES**

### **Product Specific Technical Notes**

- intended use: the offered products, i.e. cable assemblies, are components used in devices for internal wiring in non-critical industrial applications
- · not intended to be used in live-support applications, no safety-classified applications, not intended for automotive use, not intended for applications with danger to life and limb
- · desired audience: (professional) company customers who assume the full responsibility for their products including the ERNI cable assembly product under consideration
- customer has to carefully check the product's appropriateness for the desired use (application) with the help of its technical specifications and additionally verify that the operation of the product in said application is in agreement with all requirements that may be applicable under the scope of the actual application (applicable regulation, law, and whatever more)
- product solely ERNI-internally sampled and released customer FAI report will not be provided (also includes PPaPs, CofCs, acceptance test certificates and IMDS Data)
- · ERNI may change suppliers or mix materials from various sources as long as the specification layed out here will be maintained (assumption of fit-form-function)
- · outside these product offerings customer-specific assemblies to be inquired separately

### **Connect With Us**

We make it easy to connect with our experts and are ready to provide the support you need. Visit www.te.com/support to chat with a Product Information Specialist.

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# ELECTRICAL AND MECHANICAL CABLE CHARACTERISTICS

# **Technical Data Flat Ribbon Cables**

		Unit	Minimum	Typical	Maximum	Remark / Condition
RoHS compliance		-	-	yes	-	
WEEE (Waste of Electric and Electronic Equip- ment)		-	-	n/a	-	products out of scope
intended use, intended appli- cation		-	-	products suit- able for internal wiring only	-	i.e. restricted to wiring inside protective housings like cabinets, chassis cases or other units appropri- ate to provide pretection for the products against undesirable environmental impacts including mechani- cal damages.
part numbers of connectors used in assembly		-	-	refer drawing	-	also refer to output of ca- ble assembly configurator and configurator-generat- ed BOM
Workmanship accoding to UL		-	-	selectable	-	UL Listing E335534 appli- cable if configured
Workmanship IPC class (IPC/ WHMA-A-620)		Class	-	2	-	respective latest revision
Technical clean- liness / conduc- tive particles		um	-	-	400	
Customer draw- ing for product family		-	-	-	-	refer to separate document generated by cable assem- bly configurator
storage tempera- ture range		°C	-	1K4	-	acc. to IEC 60721-3-1
production testing	visual inspection	-	-	as per IPC/WH- MA-A-620	-	
	isolation test w/ test voltage	Vdc	250	-	-	each assembly is subject to an electrical test comprised of continuity (desired con- nects) and isolation hipot (desired non-connects)
	continuity test w/ test current	mA	400	-	-	each assembly is subject to an electrical test comprised of continuity (desired con- nects) and isolation hipot (desired non-connects)
marking of the product	#1 marking (product orien- tation)	n/a	-	refer drawing	-	Be particularly cautious while designing in and us- ing assemblies that employ the 1:N connection scheme (X-connected, crossed connection)

# **Mouser Electronics**

Authorized Distributor

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TE Connectivity: 354078-E