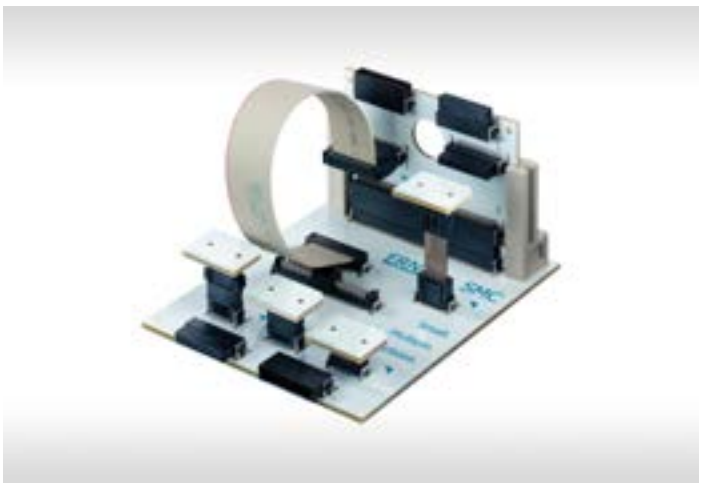
SMC

1.27 mm Connectors







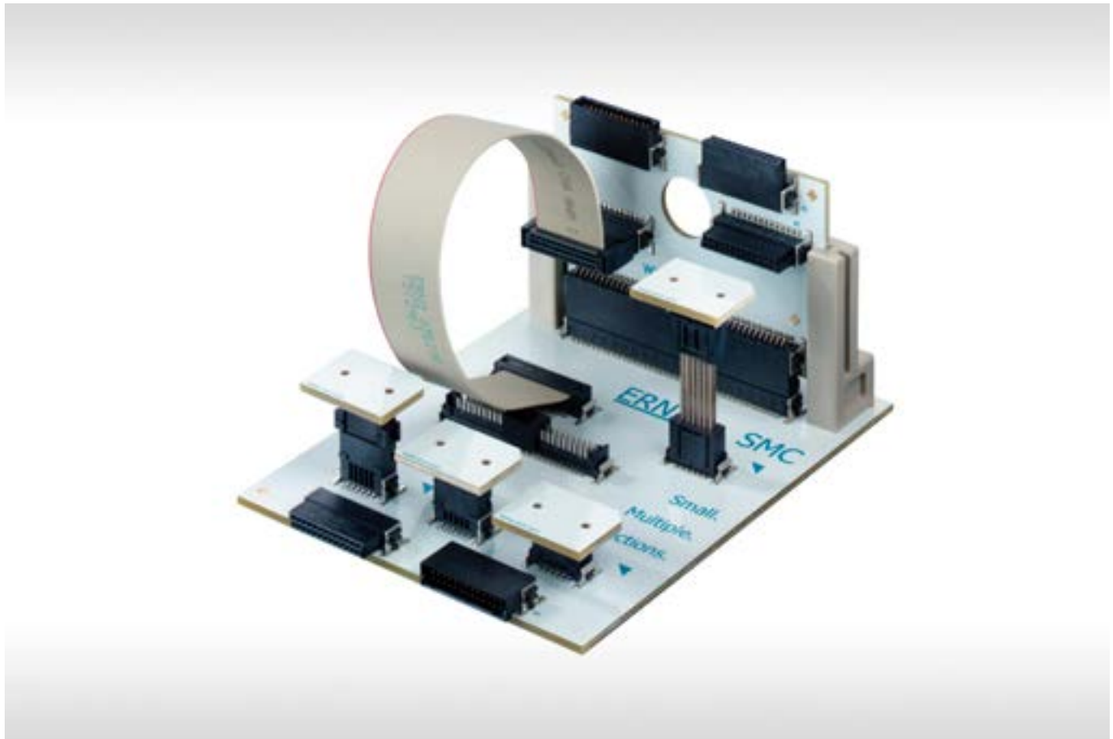
SMC - SMALL GRID, BIG POSSIBILITIES

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.

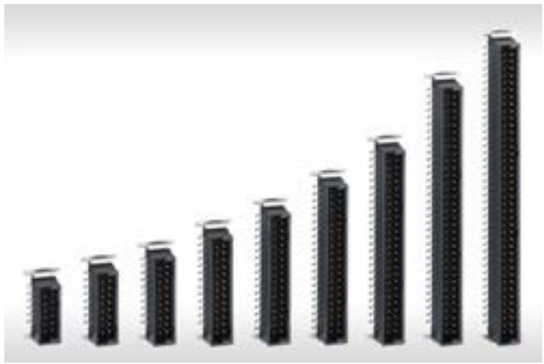
The basic design criteria for the SMC series include double-sided spring contacts for top-rate contact properties and maximum contact reliability, a high-temperature resistant insulator with polarization and insertion chamfers, and a very high mating reliability.

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, 50, 68, 80
Termination technology	SMT, individual variants in pressfit technology
Applications	Data rate up to 3 Gbit/s Current rating up to 1.7 A per contact Board-to-Board connections: - stacked (Mezzanine) - orthogonal - coplanar Wire-to-Board connections (ribbon cable): - pluggable - permanent
Variants	Male connectors, vertical and right angle Female connectors, vertical and right angle Board-to-Board adapter Board-on IDC Cable assembly: - Female connectors IDC, right angle
Special versions	Lockable connectors Pressfit male connectors Reduced locating pegs / without pegs First mate/early break contacts





CAPABILITIES



Stacked boards (Mezzanine)



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



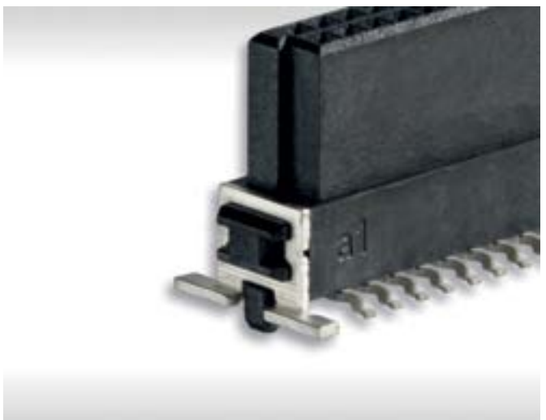
Polarization / Mating Face

- 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

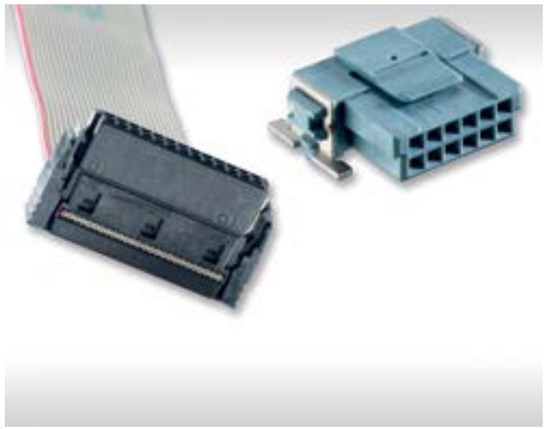
- outstanding retention forces on the circuit board
- soldering brackets absorb mechanical stress and are able to withstand high shock and vibration loads
- documented shear and tear-off forces build trust in surface-mounted connectors (e.g., shear force: min. 1000 N; tear-off force: min. 100 N)



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



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



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



PROCESSING

Tape and Reel Packaging

- transport safe packaging
- automatic assembly



Automatic Assembly and Reflow Soldering

- for efficient processing on modern assembly lines



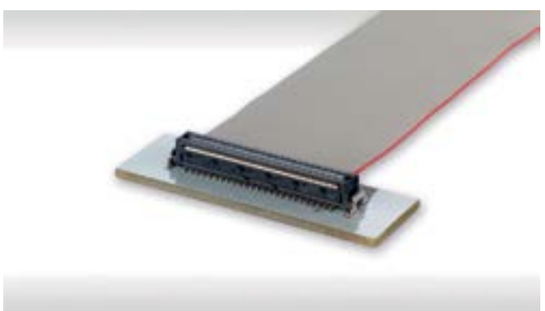
Backside Reflow Soldering

- capable of two sided reflow soldering



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

- automated and cost-efficient assembly of ribbon cables

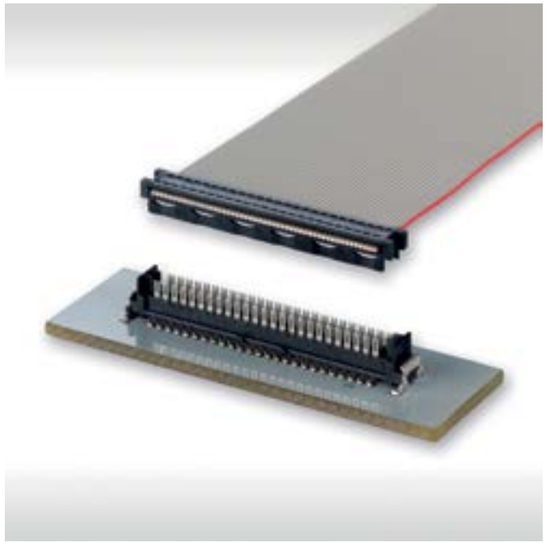


BOARD-ON IDC

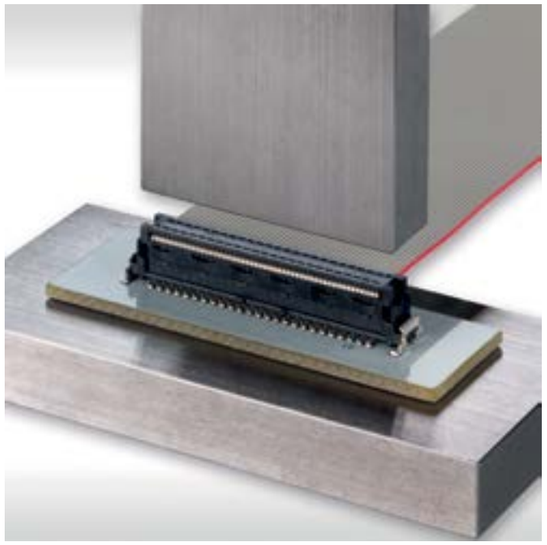
Automated Assembly



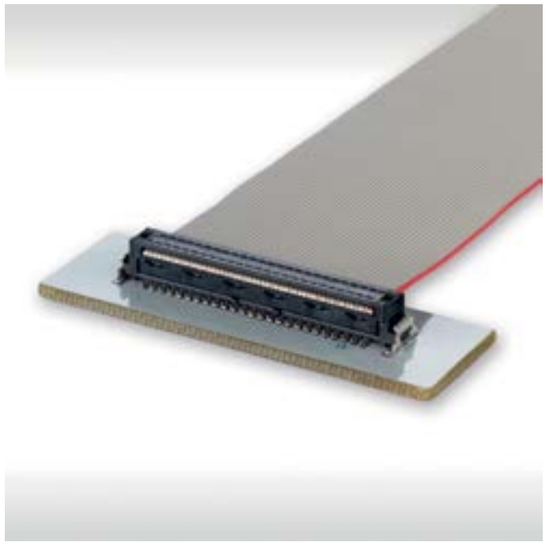
Feeding of the Ribbon Cable and Cable Guide



Press-in without Special Tool

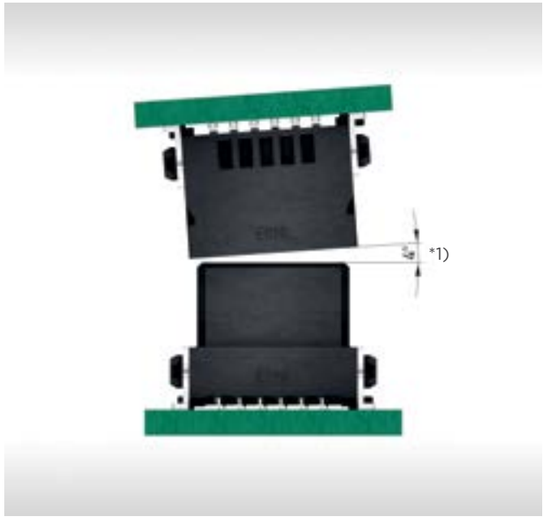


Processed Connection



MATING CONDITIONS

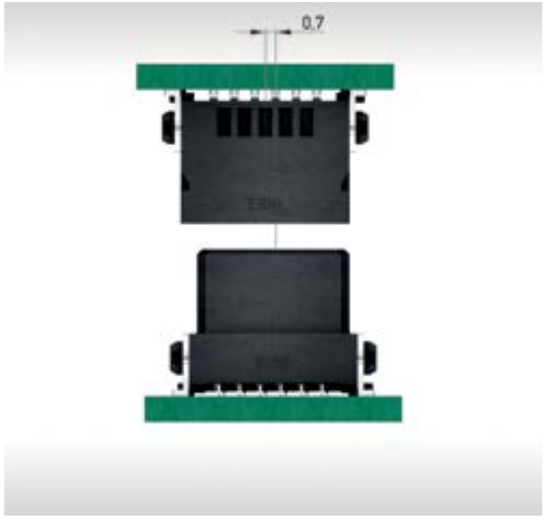
Allowed Inclination for a more Secure Self-Centering





*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 Height	Board-to-Board Adapter	Female Stacking Height
20 mm	20 mm	2 x 6.25 mm
22 mm	22 mm	2 x 6.25 mm
24 mm	24 mm	2 x 6.25 mm
26 mm	26 mm	2 x 6.25 mm
28 mm	28 mm	2 x 6.25 mm
30 mm	30 mm	2 x 6.25 mm
32 mm	32 mm	2 x 6.25 mm
34 mm	34 mm	2 x 6.25 mm
36 mm	36 mm	2 x 6.25 mm
38 mm	38 mm	2 x 6.25 mm
40 mm	38 mm (wipe length)	2 x 6.25 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
Temperature range		-55 / 125 °C (PCB Connectors) -55 / 125 °C (TPE-S Cable)	-55 / 125 °C (TPE-S Cable)
Current rating per contact	IEC60512 test 5b	12-pin version at 20 °C ambient temperature: 1.7 A (up to 2.7 A with optimized layout)	
Air- and creepage distance		contact - contact min. 0.4 mm	
Operating voltage	IEC 60664	The permissible operating voltages depend on the customer application and on the applicable or specified safety requirements. Insulation coordination according to IEC 60664-1 has to be regarded for the complete electrical device. Therefore, the maximum creepage and clearance distances of the mated connectors are specified for consideration as a part of the whole current path. In practice, reductions in creepage or clearance distances may occur due to the conductive pattern of the printed board or the wiring used, and have to be taken into account separately. As a result the creepage and clearance distances for the application may be reduced compared to those of the connector.	
Dielectric strength	IEC 60512 test 4a	contact - contact 500 V_{rms}	
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	> 10^4 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	50 g 11 ms	
Contact disturbance (while shock test)	IEC 60512 test 2e	< 1 µs	
Mechanical operation	IEC 60512 test 9a	500 mating cycles	
Insertion and withdrawal force max.	IEC 60512 test 13b	0.5 N per contact	
Gauge retention force	IEC 60512 test 16e	> 0.1 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

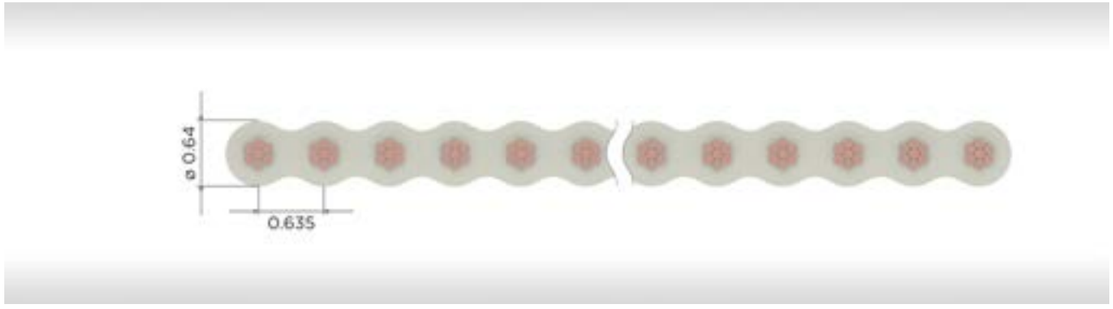
Description	Standard	PCB Connectors, Cable Assemblies, B-to-B Adapter	Board-on IDC (Ribbon Cable AWG 30, 250 mm)
Housing Material			
Insulation body		LCP	
CTI value	IEC 112	175	
UL flame rating		UL 94 V-0	
UL file plastic material		E83005	
Contact Material			
Base material		Cu alloy	
Mating area		gold plating	–
Termination area		Sn	
Environment Compatibility			
Recycling		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^2		
Conductor	stranded Cu wire, tinned, 7x0.102 / 0.06 mm^2		
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			
Temperature range	-20/105 °C (fixed) -10/105 °C (mobile)	-60/125 °C (fixed) -40/125 °C (mobile)	-40/105 °C (fixed) -20/105 °C (mobile)
Dielectric strength	1500 V_{rms}	1000 V_{rms}	1200 V_{rms}
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 diameter		
RoHS	compliant		
Flame rating	UL 94 VW-1	IEC 60332-1-2	UL 1581 (Horizontal Flame Test)



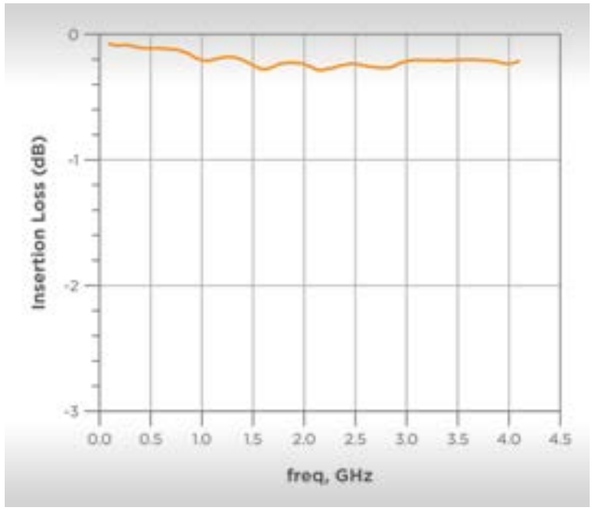
HIGH FREQUENCY CHARACTERISTICS

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

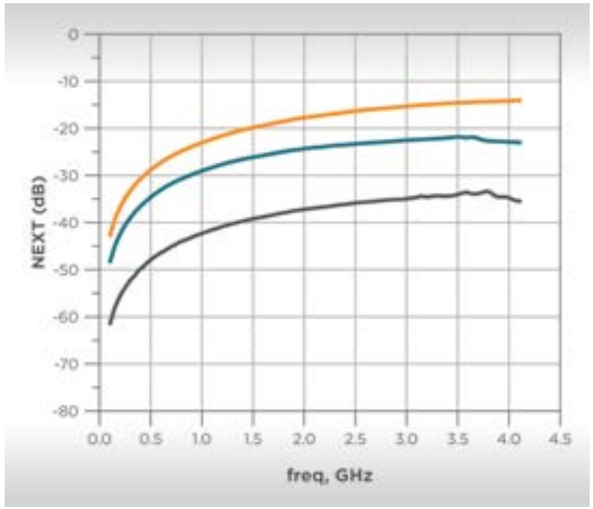
Insertion Loss





Ground
Signal

Near End Crosstalk (Next)





Ground
Signal

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

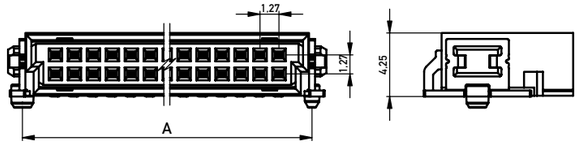
RIGHT ANGLE MALE

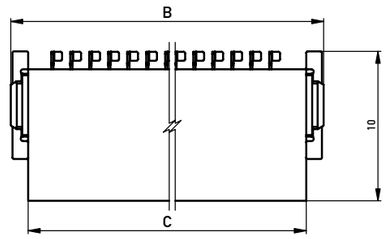
Product Specification

- 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

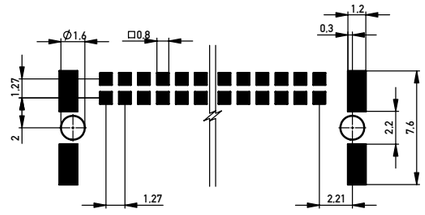




No. of Contacts	A	B	C
12	10.77	12.70	10.35
16	13.31	15.24	12.91
20	15.85	17.78	15.45
26	19.66	21.59	19.26
32	23.47	25.40	23.07
40	28.55	30.48	28.15
50	34.90	36.83	34.50
68	46.33	48.26	45.93
80	53.95	55.88	53.55

All dimensions in mm.

Recommended Layout



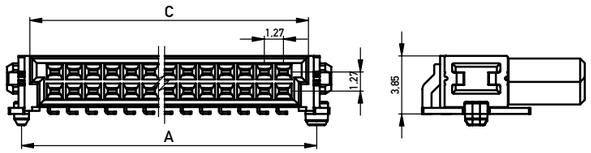
RIGHT ANGLE FEMALE

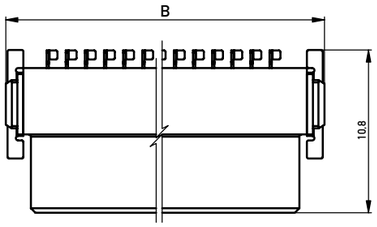
Product Specification

- 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

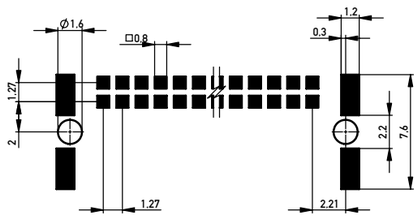




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32	23.47	25.40	22.07
40	28.55	30.48	27.15
50	34.90	36.83	33.50
68	46.33	48.26	44.93
80	53.95	55.88	52.55

All dimensions in mm.

Recommended Layout



VERTICAL MALE

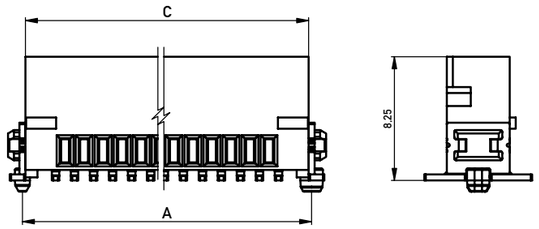
Product Specification

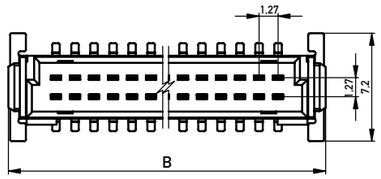
- SMT termination
- dual row connector
- data rates up to 3 Gbit/s
- location pegs for exact board placement
- black insulation body for fast and reliable visual recognition
- automated board assembly
- 3 stacking heights (1.75, 3.25, 4.85 mm)
- for available part numbers please refer to our website



Dimensional Drawings

Unmated Stacking Height 3.25 mm

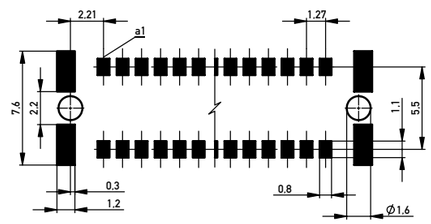




No. of Contacts	A	B	C
12	10.77	12.70	10.37
16	13.31	15.24	12.91
20	15.85	17.78	15.45
26	19.66	21.59	19.26
32	23.47	25.40	23.07
40	28.55	30.48	28.15
50	34.90	36.83	34.50
68	46.33	48.26	45.93
80	53.95	55.88	53.55

All dimensions in mm.

Recommended Layout



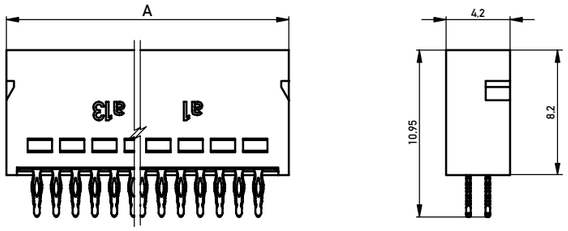
VERTICAL MALE PRESSFIT

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

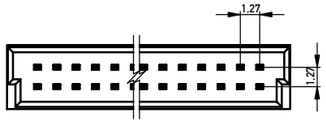


Dimensional Drawings

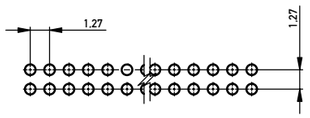


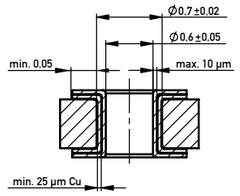
No. of Contacts	A
12	10.35
26	19.24
50	34.48
68	45.91
80	53.53

All dimensions in mm.



Recommended Layout | Hole Design

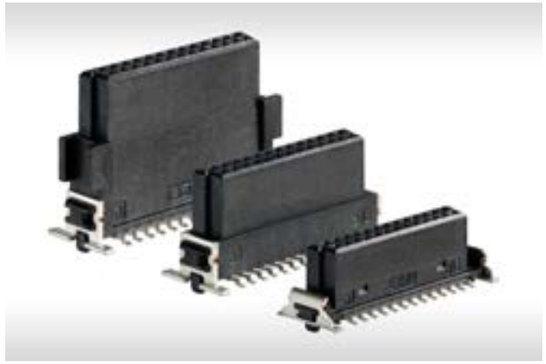




VERTICAL FEMALE

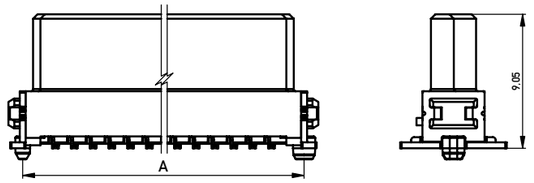
Product Specification

- 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



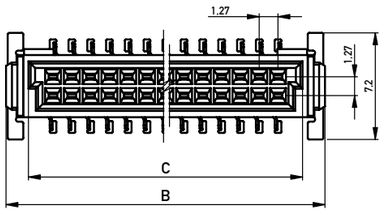
Dimensional Drawings

Unmated Stacking Height 9.05 mm

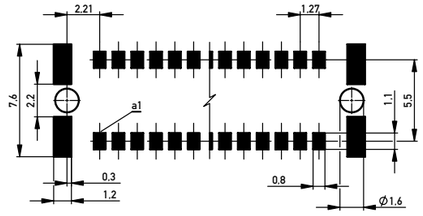


No. of Contacts	A	B	C
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50	34.90	36.80	33.50
68	46.33	48.20	44.93
80	53.95	55.80	52.55

All dimensions in mm.



Recommended Layout



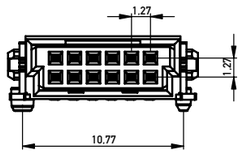
RIGHT ANGLE MALE WITH LOCKING SYSTEM

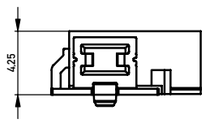
Product Specification

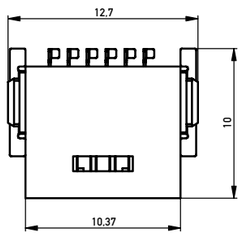
- two types of interlocking:
  - positive lock (blue colored): unlockable i.e. by tool, tip of pen
  - friction lock (black colored): unlockable without any tool
- SMT termination
- data rates up to 3 Gbit/s
- location pegs for exact board placement
- automated board assembly
- for available part numbers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



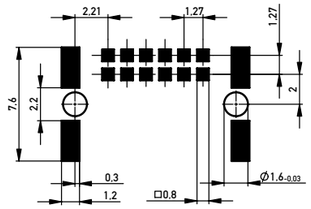
Dimensional Drawings







Recommended Layout



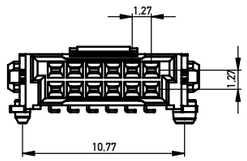
RIGHT ANGLE FEMALE WITH LOCKING SYSTEM

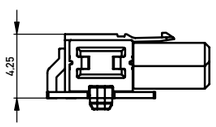
Product Specification

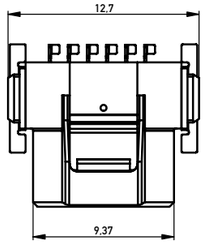
- two types of interlocking:
  - positive lock (blue colored): unlockable i.e. by tool, tip of pen
  - friction lock (black colored): unlockable without any tool
- SMT termination
- data rates up to 3 Gbit/s
- location pegs for exact board placement
- automated board assembly
- for available part numbers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



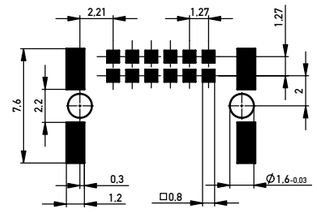
Dimensional Drawings







Recommended Layout



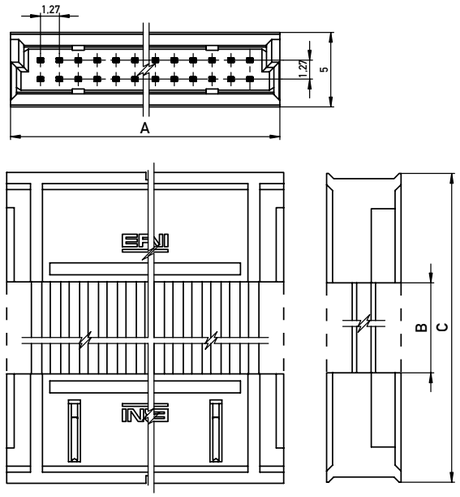
BOARD-TO-BOARD ADAPTER

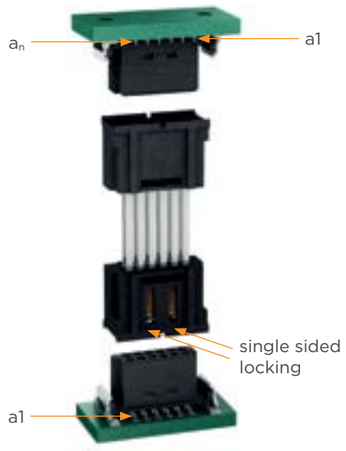
Product Specification

- 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





No. of Contacts	A
12	10.37
26	19.26
50	34.50
68	45.93
80	53.55

All dimensions in mm.

B-to-B Adapter (Board-Distance)	B	C
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

BOARD-ON IDC

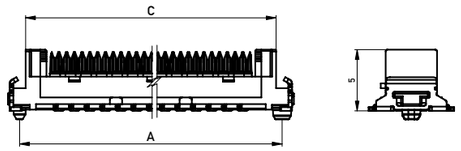
Product Specification

- 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



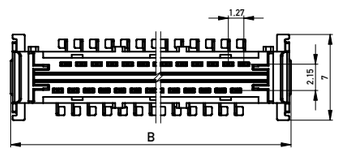
Dimensional Drawings | Recommended Layout

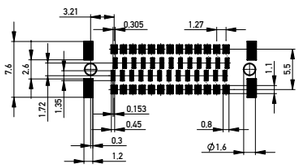
Board-on Connectors



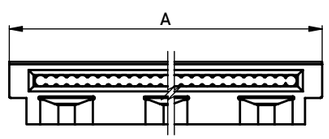
No. of Contacts	A	B	C
12	12.77	14.70	11.78
26	21.66	23.59	20.67
50	36.90	38.83	35.91

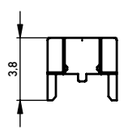
All dimensions in mm.





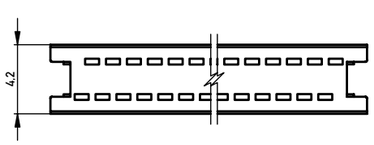
Board-on Cable Guide





No. of Contacts	A	B
12	10.78	6.98
26	19.67	15.87
50	34.91	31.11

All dimensions in mm.



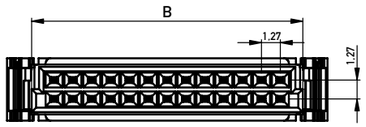
CABLE ASSEMBLIES

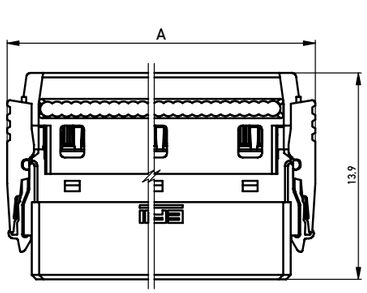
Product Specification

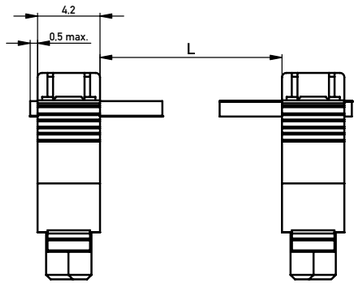
- cable assemblies with IDC female connectors
- ribbon cable AWG 30/7
- three different cable types
- for available part numbers please refer to our website



Dimensional Drawings







No. of Contacts	A	B
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

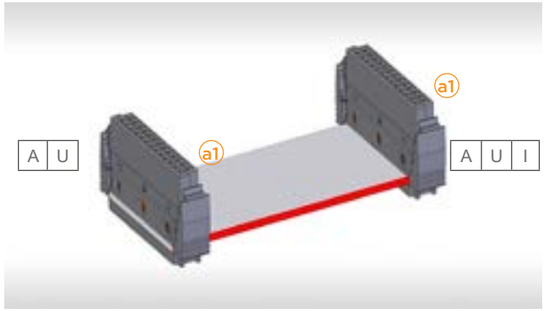
All dimensions in mm.

CABLE ASSEMBLIES

Configurations

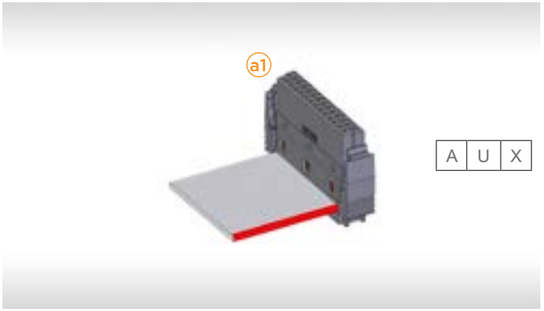
Standard

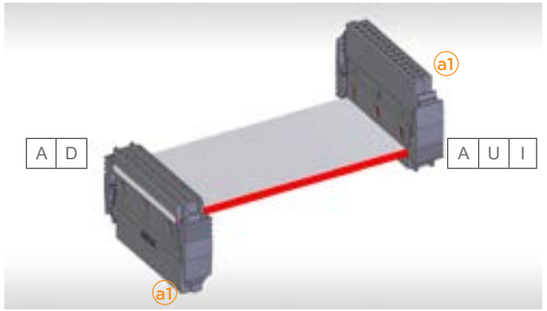
Connector #1 Connector #2

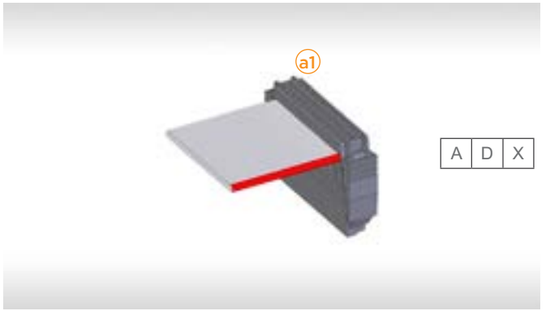


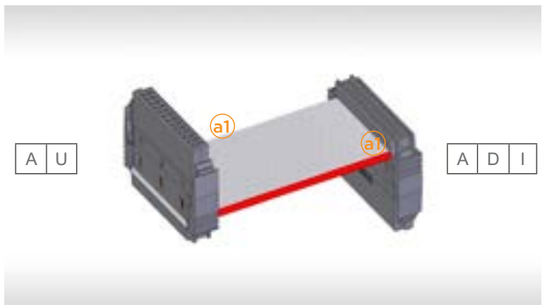
Crossed

Connector #2











CABLE ASSEMBLIES

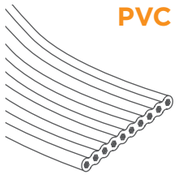
Cable Types



Standard

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

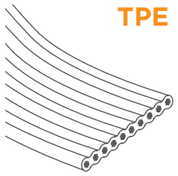
PVC



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

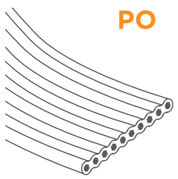
TPE



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

PO



CABLE ASSEMBLIES

Ordering Information Standard Cable Assemblies

CFGCA _ ☐☐☐ _ ☐☐ _ ☐☐ _ ☐☐ _ ☐☐ _ ☐☐☐ _ ☐☐☐ _ ☐☐☐☐ _ ☐☐☐

- CFGCA — Class
- ☐☐☐ — Connector type
- ☐☐ — AWG wire
- ☐☐ — Pin count
- ☐☐ — Locking type
- ☐☐ — Orientation connector left
- ☐☐☐ — Orientation connector right
- ☐☐☐ — Isolation of wire
- ☐☐☐☐ — Length in mm
- ☐☐☐ — Options

Example for a standard configuration:

CFGCA _ SMC _ 30R _ 12 _ LL _ AU _ AUI _ PVC _ 0175 _ ANN

Ordering code field	Number of digits	Example configuration	Composition of the configuration
Class	5	CFGCA	**C**on**FiG**urable **C**able **A**ssembly
Connector type	3	SMC	**SMC**
AWG wire	3	30R	1st and 2nd column: **30** 3rd column: **R**ibbon Cable
Pin count	2	12	**12**, **16**, **20**, **26**, **32**, **40**, **50**, **68**, **80**
Locking type	2	LL	**L**ocking **L**atches **S**ecure **L**ock
Orientation connector left	2	AU	**A**ngeled **U**p **A**ngeled **D**own
Orientation connector right	3	AUI	1st and 2nd column: **A**ngeled **U**p **A**ngeled **D**own **N**ot **C**onne**C**ted 3rd column: **I**-connected (1:1) **X**-connected (1:N)
Isolation of wire	2 - 4	PVC	**PVC**: -10 °C to +105 °C **TPE**: -40 °C to +125 °C **PO**: -20 °C to +105 °C, halogen free
Length in mm	4	0175	**175** mm / 25 - 2500 mm possible
Options	3	ANN	1st column: **A**symmetric **S**ymmetric 2nd and 3rd column: custom **PR**int **UL** Label **P**rint ad **U**L Label **N**o print **N**o UL label

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 responsibilty 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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www.erni.com

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 Equipment)			-	-	n/a	-	products out of scope
intended use, intended application			-	-	products suitable for internal wiring only	-	i.e. restricted to wiring inside protective housings like cabinets, chassis cases or other units appropriate to provide pretection for the products against undesirable environmental impacts including mechanical damages.
part numbers of connectors used in assembly			-	-	refer drawing	-	also refer to output of cable assembly configurator and configurator-generated BOM
Workmanship accoding to UL			-	-	selectable	-	UL Listing E335534 applicable if configured
Workmanship IPC class (IPC/WHMA-A-620)			Class	-	2	-	respective latest revision
Technical cleanliness / conductive particles			um	-	-	400	
Customer drawing for product family			-	-	-	-	refer to separate document generated by cable assembly configurator
storage temperature range			°C	-	1K4	-	acc. to IEC 60721-3-1
production testing	visual inspection		-	-	as per IPC/WHMA-A-620	-	
	isolation test w/ test voltage		Vdc	250	-	-	each assembly is subject to an electrical test comprised of continuity (desired connects) 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 connects) and isolation hipot (desired non-connects)
marking of the product	#1 marking (product orientation)		n/a	-	refer drawing	-	Be particularly cautious while designing in and using assemblies that employ the 1:N connection scheme (X-connected, crossed connection)

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