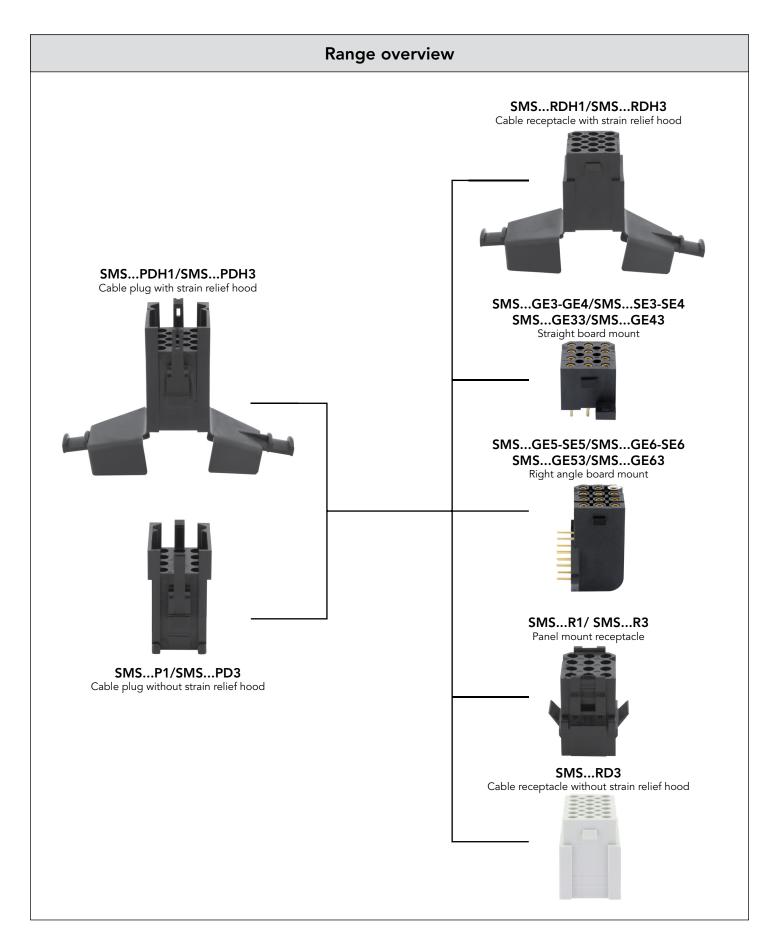


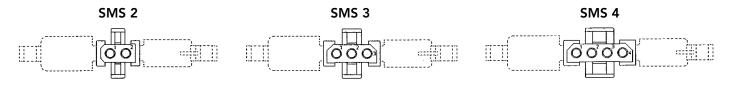
## **SOURIAU**

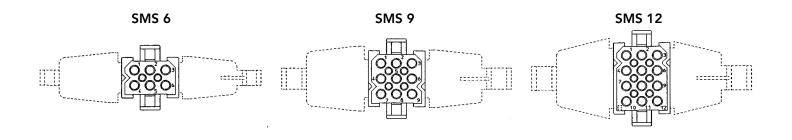
**Quick Mating** 

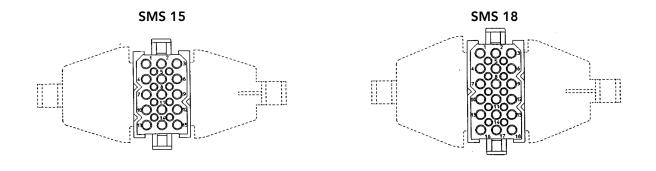


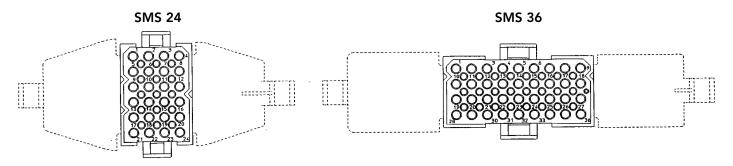


## **Contacts layout**









Contact identifications shown are for mating face. Contact identifications of wiring face are identical as shown on the receptacle arrangements

## **Quick Mating panel** and cable connectors

#### Description

The versatile and easy to use "SMS" Quick Mating panel and cable connectors are a highly cost-effective system approach to solving the constant demand for more interconnection solutions and techniques.

A full plastic solution offered in either Wire attachment or PCB mounting options to provide rapid assembly/installation without requiring additional mounting hardware. Panel receptacle connectors simply snap and lock into panel cut-outs and cable plugs quickly connect and disconnect with positive retention locks. Just push to mate then press and release to un-mate.

In addition, cable plug connectors also feature pin-protection skirts, positive polarization and are offered with or without integrated strain relief hoods. Cable receptacle connectors (with integrated strain relief hoods) are available to mate with the cable plug connectors for cableto-cable solutions when needed.

These multi-way connectors accept the Size 16 TRIM TRIO (1.6mm) diameter contacts and are available with 10 contact arrangements from 2 to 36 positions.

#### Features and benefits

- Available in 10 contact arrangements
- Self mountable panel receptacle with positive housing retention
- Cable plugs with retaining latches for positive locking
- Cable plug has pin protection skirt to prevent damage of male contacts
- Positive polarization keys prevent mismating
- Cable plug and receptacle have integrated strain relief hood which can accept a wide range of cables
- Cable plug and receptacle have discrimination cavities in between contact cavities, thus offering discrimination without contact loss. See instruction page 21.
- UL recognized File Nr.: E238675 • CSA certififed File Nr.: LR44961-21



#### **Environmental**

- Operating temperature: -55°C to +105°C
- Insulation resistance: 5000 M $\Omega$  min.
- Test potential: 2000 VAC
- Durability: 500 matings and unmatings
- Sealing performances: IP40
- Electrical performances: UL: 250V - 10A CSA: 250V - 15A

## Wire insulation acceptance

- SMS PDH1, RDH1, PD3, PDH3, RDH3 max: 3.2mm
- SMS R1, P1, R3 max: 4.19mm

#### Material

- Connector: Polyamide 6.6
- Flammability rating: UL94 V2 (Black) or UL94 V0 (White).

The white version is also I3F2/I2F3 according to the NFF 16101 /16102 (Fire & fume standard for French rail market) and R23/HL3 following EN 45 545

#### Contact

- "SMS" Quick Mating connectors accept TRIM TRIO size 16 removable snap-lock contacts (see contact section)
- Contacts to be ordered seperately.

## Ordering information

Connector family 12 PDH3

Layout: see next page

#### **Body variation:**

R1: (UL94 V2) Panel mount receptacle - Black R3: (UL94 V0) Panel mount receptacle - White

P1: (UL94 V2) Cable plug without strain relief hood - Black PD3: (UL94 V0) Cable plug without strain relief hood - White

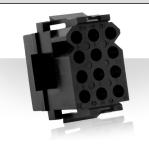
PDH1: (UL94 V2) Cable plug with integrated strain relief hood - Black PDH3: (UL94 V0) Cable plug with integrated strain relief hood - White

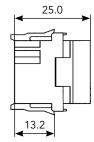
RD3: (UL94 V0) Cable receptacle without integrated strain relief hood - White RDH1: (UL94 V2) Cable receptacle with integrated strain relief hood - Black

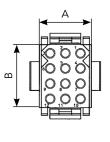
RDH3: (UL94 V0) Cable receptacle with integrated strain relief hood - White

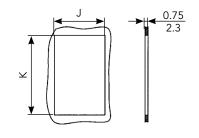
## **Connectors**

## Panel mount receptacle without discrimination cavities (wire acceptance: 4.19mm)





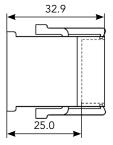


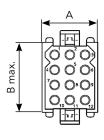


Part n	umber	Nbr. of contact*	A	В	C max.		К
Black UL94 V2	White UL94 V0	INDr. of contact"	A B		C max.	J	K
SMS2R1	SMS2R3	2	11.0			11.4	
SMS3R1	SMS3R3	3	16.2	5.8	15.2	16.5	11.6
SMS4R1	SMS4R3	4	21.1			21.7	
SMS6R1	SMS6R3	6		10.9	20.3	16.5	16.7
SMS9R1	SMS9R3	9		16.0	25.4	10.5	21.6
SMS12R1	SMS12R3	12	16.2	21.1	30.5		26.7
SMS15R1	SMS15R3	15		26.2	35.6	16.7	31.8
SMS18R1	SMS18R3	18		31.2	40.6		36.9
SMS24R1	SMS24R3	24	21.2	31.2	40.6	21.7	30.9
SMS36R1	SMS36R3	36	46.6	21.1	30.5	47.1	26.7
*Contacts supplied separate	ly		-	-	-	-	

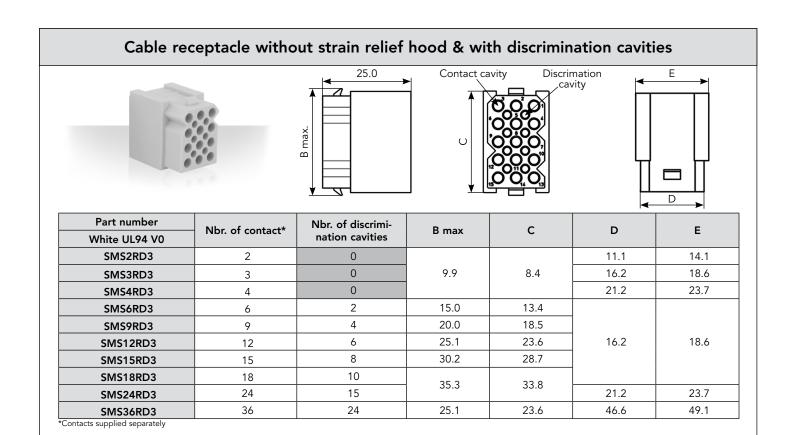
## Cable plug without strain relief hood & without discrimination cavities (wire acceptance: 4.19mm)

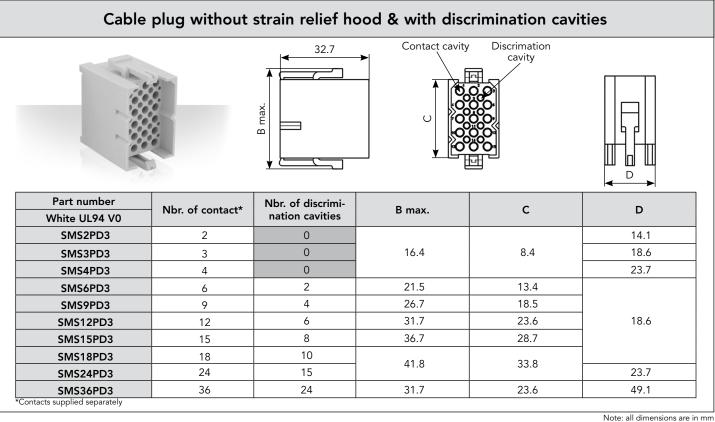






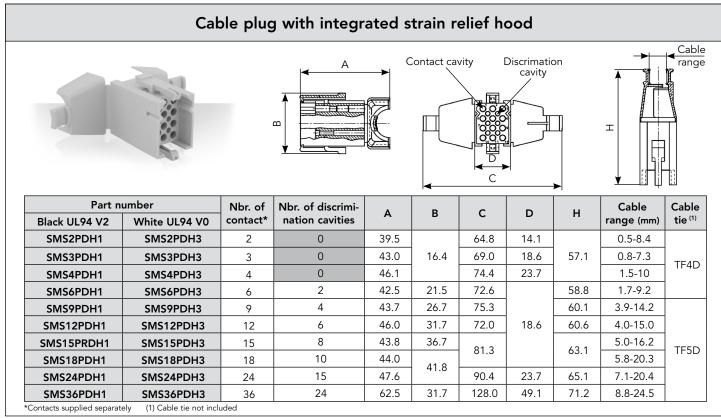
Part number	Nbr. of contact*	A	C max.
Black UL94 V2	14bi. or contact		C max.
SMS2P1	2	15.0	
SMS3P1	3	18.6	17.8
SMS4P1	4	23.7	
SMS6P1	6		22.9
SMS9P1	9	18.6	27.9
SMS12P1	12		33.0
SMS15P1	15		38.1
SMS18P1	18		42.2
SMS24P1	24	23.7	43.2
SMS36P1	36	49.1	33.0
*Contacts supplied separately			





## **Connectors** (Continued)

#### Cable receptacle with integrated strain relief hood Cable Contact cavity Discrimation range エ C Part number Nbr. of discrimi-Cable Nbr. of Cable Α В C D Н contact\* nation cavities range (mm) tie (1) Black UL94 V2 White UL94 V0 SMS2RDH1 SMS2RDH3 2 0 31.6 11.1 0.5 0.5-8.4 0 0.8-7.3 35.1 9.9 69.0 16.2 49.2 SMS3RDH1 SMS3RDH3 3 TF4D 0 38.2 74.4 21.2 1.5-10 SMS4RDH1 SMS4RDH3 4 2 34.6 15.0 72.6 50.9 1.7-9.2 SMS6RDH1 SMS6RDH3 6 4 9 35.8 20.0 75.3 52.2 3.9-14.2 SMS9RDH1 SMS9RDH3 6 38.1 72.0 4.0-15.0 25.1 16.2 52.7 SMS12RDH1 SMS12RDH3 12 8 35.9 30.2 5.0-16.2 SMS15RDH1 SMS15RDH3 15 81.3 55.2 TF5D 18 10 36.1 5.8-20.3 SMS18RDH1 SMS18RDH3 35.3 15 39.7 90.4 21.2 57.2 7.1-20.4 SMS24RDH3 SMS24RDH1 24 24 8.8-24.5 SMS36RDH1 SMS36RDH3 36 54.6 25.1 128.0 46.6 63.3



Contacts supplied separately

(1) Cable tie not included

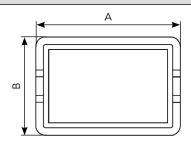
## Accessories for standard Quick Mating connectors

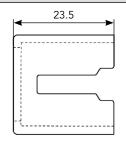
## Pin protection shroud for panel mount receptacle



When pins are inserted into the panel mount receptacle half (SMS...R1) of the Quick Mating connector, an optional pin protection shroud can be installed.

The shroud is mounted at the same time as the receptacle by holding the shroud against the mating side of the panel with both cutouts lined up. The receptacle is then inserted in place, trapping the shroud between the receptacle and panel. The use of the pin protection shroud reduces the allowable thickness of the panel from 2.3 to 1.6 mm max.





Part number	Nbr. of contact	Α	В	
Black UL94 V2	position	A	В	
SMS2CSB1	2	19.8		
SMS3CSB1	3	23.4	18.8	
SMS4CSB1	4	28.4		
SMS6CSB1	6		23.9	
SMS9CSB1	9		29.0	
SMS12CSB1	12	23.4	34.0	
SMS15CSB1	15		39.1	
SMS18CSB1	18		44.2	
SMS24CSB1	24	28.4	44.2	
SMS36CSB1	36	54.1	34.0	

#### Strain relief hoods



For SMS2H1, SMS3H1 & SMS4H1



2 pieces are needed for a complete hool for SMS6H1 to SMS36H1

Separate strain relief hoods are available for all standard plugs SMS...P1. The hoods consist of identical halves that snap into position on the plug and are secured in place with the cable tie drawn tightly around the cable entry collar.

The cable tie is not included (TF4D - TF5D).

Two, three and four position hoods are single piece units.

Part number Black UL94 V2	Nbr. of contact position
SMS2H1	2
SMS3H1	3
SMS4H1	4
SMS6H1	6
SMS9H1	9
SMS12H1	12
SMS15H1	15
SMS18H1	18
SMS24H1	24
SMS36H1	36

## Discrimination pins

For discrimination pins on both standard Quick Mating and Quick Mating Pin Headers cable and board mount: See accessories section.

#### **Contact Selector Guide**

## Contact supplied separately

Electrical characteristics: contact resistance					
#16	Machined	< 3mΩ			
Ø1.6mm	Stamped & Formed	< 6mΩ			

Avail	able platings (contact supplied separately)				
J	Gold flash over 2µ Ni				
K	Min 0.4µ gold over 2µ Ni				
S31	Active part: Gold flash over Ni Crimp area: Nickel				
S18	Active part: 0.75μ gold min over 2μ Ni Crimp area: 1.3μ tin over Ni Other: Nickel				
TK6	2-5µ Sn pre-plated				
D70	Superseded by S31				
<b>S6</b>	Superseded by S18				
Other pla	atings on request (contact supplied separately)				
Т	T: 2μm Ni mini all over + 3 to 5 μm Sn all over				
D28	0.75µ gold over Ni				

## **Packaging**

Due to the wide variety of applications, contact packaging is offered for small series (bulk package) and high volume production (reeled contacts):

#### Size contacts #16 (Ø1.6mm)



• 25 pieces loose package (Stamped & Formed contacts)



• 50 pieces bulk package (Machined contacts)



• 1,000 pieces bulk package (Machined contacts)



• 3,000 pieces reeled (Stamped & Formed contacts)



• 2,000 pieces reeled (Machined contacts)

## **Crimp Contacts**

## **Standard Version**





Contact	T	Wire size		Part n	Part number		Max	Available	
size	Туре	AWG	mm²	Male	Female	wire Ø	insulator Ø	plating	
	Machined	30-28	0.05-0.08	RM28M1-	RC28M1-	0.55	1.1	K, J	
	Machined	26-24	0.13-0.2	RM24M9-	RC24M9-	0.8	1.6	K, J	
	Stamped & Formed	26-24	0.13-0.25	SM24M1- <sup>(1)</sup> SM24ML1- <sup>(2)</sup>	SC24M1- <sup>(1)</sup> SC24ML1- <sup>(2)</sup>	0.89-1.28	Insulation grip	S31, S18, TK6	
	N4 1: 1	22.20	0.20.0.50	RM20M13-	RC20M13-			1.8	14.1
	Machined	22-20	0.32-0.52	RM20M12-	RC20M12-	1.18	2.2	K, J	
#16	Stamped & Formed	22-20	0.35-0.5	SM20M1-(1) SM20ML1-(2)	SC20M1- <sup>(1)</sup> SC20ML1- <sup>(2)</sup>	1.17-2.08	Insulation grip	S31, S18, TK6	
Ø1.6 mm	Machined	20-16	0.52-1.5	RM16M23-	RC16M23-	1.8	3.2	K, J	
	Stamped & Formed	18-16	0.8-1.5	SM16M1- <sup>(1)</sup> SM16ML1- <sup>(2)</sup>	SC16M1- <sup>(1)</sup> SC16ML1- <sup>(2)</sup>	3.0	No insulation grip	S31, S18, TK6	
	Stamped & Formed	18-16	0.8-1.5	SM16M11-(1) SM16ML11-(2)	SC16M11- <sup>(1)</sup> SC16ML11- <sup>(2)</sup>	2.0-3.0	Insulation grip	S31, S18, TK6	
	Machined	16-14	1.5-2.5	RM14M30-	RC14M30-	2.28	3.2	K, J	
	Stamped & Formed	14	2.0-2.5	SM14M1- <sup>(1)</sup> SM14ML1- <sup>(2)</sup>	SC14M1- <sup>(1)</sup> SC14ML1- <sup>(2)</sup>	3.2	No insulation grip	S31, S18, TK6	

(1) contact reeled (2) loose contact Exemple: **RM20M13K** - Size #16, Machined, AWG20 wire.

Note: all dimensions are in mm

## **Tooling**

## **Crimp Tool Table**

## Standard contacts

Contact size	Part number	Head*	Handles*	Extraction tools	
	RM/RC 28M1*				
	RM/RC 24M9*	S16RCM20			
	RM/RC 20M13*	316KCM20		RX2025GE1	
	RM/RC 20M12*				
#16	RM/RC 16M23*	S16RCM16	SHANDLES		
#10 Ø1.6 mm	RM/RC 14M30*	S16RCM14			
Ø1.0 mm	SM/SC 24ML1*(1)	S16SCM20			
	SM/SC 20ML1*(1)	3163CH20			
	SM/SC 16ML1*(1)	S16SCML1			
	SM/SC 14ML1*(1)	3163CML1			
	SM/SC 16ML11*(1)	S16SCML11			

\* endurance of SHANDLES & Head tools = 50,000 cycles (1) loose contact

## Notes



## **Quick Mating PC** board mount connectors

#### Description

These PC board mount connectors enable Quick Mating and preassembled TRIM TRIO contacts to be PC board mounted, using conventional solder production techniques. They will then mate and latch with the standard Quick Mating plugs.

Straight board mount connectors is available in 10 insert arrangements from 2 to 36 positions. Right angled board mount Quick Mating is available in 3, 6, 12 and 18 positions.

All board mount connectors are supplied fully loaded with pin or socket contacts, either in solid machined or stamped and formed

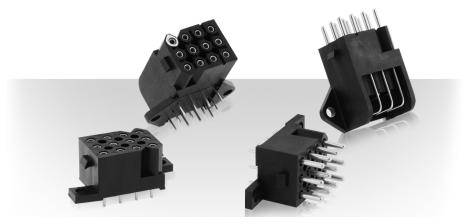
Stamped and formed contact have selective tin plating on the solder tails, thus eliminating flux operations.

#### Features and benefits

- Straight versions available in 10 contact arrangements from 2 to 36 positions
- Right angled versions available in 3, 6, 12 and 18 positions.
- All versions are available with:
- Pin or socket contacts
- Stamped and formed or solid machined contacts
- Board mount connectors have discrimination cavities in between contact cavities, unless other wise noted. See instruction page 21.
- UL recognized File Nr.: E238675 • CSA certififed File Nr.: LR44961-21

#### **Environmental**

- Operating temperature: -55°C to +105°C
- Insulation resistance: 5000 M $\Omega$  min.



- Test potential: 2000 VAC
- Current rating for SMS PCB version:
  - 5 Amp for stamped and formed contacts - 7.5 Amp for machined contacts
- Electrical performances for crimped versions: UL: 250V - 15A CSA: 250V - 15A
- Durability: 500 matings and unmatings
- Sealing performances: IP40

#### Material

- Connector body:
- Glass filled thermoplast UL94 V0
- Railway version: 12 F3 according to NF F 16-101 HL2/R23 according to EN 45 545
- Contacts:
- High conductive copper alloy
- Soldering information: compatible with wave soldering up to 245°C. Not compatible with reflow soldering.

## Plating table

- Plating for solid machined contacts:
- Made for 2.4mm or 3.2mm PCB thickness (straight contacts) and for 3.2mm PCB

thickness (right contacts)

**K9** (std) = Min.  $0.4\mu$  Gold in contact area, Tin on solder tail, over Nickel

J9 = Gold flash in contact area, Tin on solder tail, over Nickel

 $T = 3 - 5\mu$  Tin all over

#### • Plating for Stamped and formed contacts:

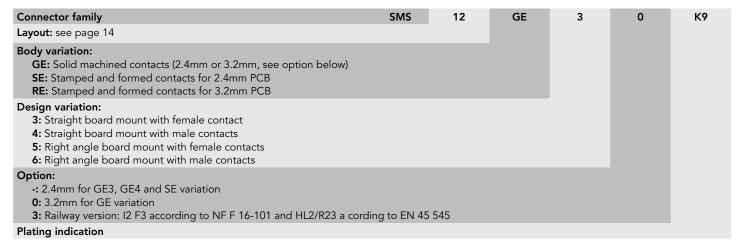
- Made for 2.4mm PCB thickness (straight contacts) and for 3.2mm PCB thickness (right contacts)
  - $K9 = Min. 0.4\mu$  Gold in contact area,  $3-5\mu$  Tin on solder tail, over Nickel
  - $T = 3 5\mu$  Tin all over
- Made for 3.2mm PCB thickness (straight contacts)
- **S6** = Min.  $0.75\mu$  Gold in contact area Gold flash on solder tail, over Nickel

D70 = Gold flash all over  $TR29 = 3 - 5\mu Tin all over$ 

Intermateability

"SMS" Quick Mating board mount connectors with preassembled TRIM TRIO size 16 board mount contacts are intermateable only with the "SMS" Quick Mating cable plug connectors equipped with TRIM TRIO crimp type removable snap-lock contacts (see contact section).

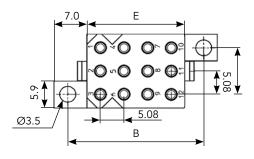
## Ordering information

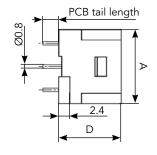


## **Connectors**

## Straight board mount with female contacts







#### **Dimensions**

Nbr. of contact	Nbr. of discrimination cavities	А	В	С	D	E
2	0	11.0	-	19.1		
3	0	16.2	14.0	10.2		5.9
4	0	21.3	14.0	15.2		
6	0		19.2			10.9
9	4		24.2		12.4	16.0
12	0	16.2	29.2	10.2	13.4	21.1
15	8		34.3			26.1
18	10		39.4			21.2
24	0	21.2	37.4	15.2		31.2
36	0	46.5	15.2	54.6		20.9

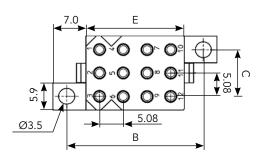
#### Contacts type

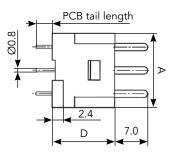
Part number							
	NFF certified version						
Solid machin	ned contacts	Stamped & fo	rmed contacts	Solid machined contacts			
PCB thickness 2.4mm PCB tail length 3.4mm	PCB thickness 3.2mm PCB tail length 4.2mm	PCB thickness 2.4mm PCB tail length 3.4mm	PCB thickness 3.2mm PCB tail length 4.4mm	PCB thickness 2.4mm PCB tail length 3.4mm			
SMS2GE3*	SMS2GE30*	SMS2SE3*	SMS2RE3*	-			
SMS3GE3*	SMS3GE30*	SMS3SE3*	SMS3RE3*	SMS3GE33*			
SMS4GE3*	SMS4GE30*	SMS4SE3* SMS4RE3*		-			
SMS6GE3*	SMS6GE30*	SMS6SE3*	SMS6RE3*	SMS6GE33*			
SMS9GE3*	SMS9GE30*	SMS9SE3*	SMS9RE3*	SMS9GE33*			
SMS12GE3*	SMS12GE30*	SMS12SE3*	SMS12RE3*	SMS12GE33*			
SMS15GE3*	SMS15GE30*	SMS15SE3*	SMS15RE3*	SMS15GE33*			
SMS18GE3*	SMS18GE30*	SMS18SE3* SMS18RE3*		SMS18GE33*			
SMS24GE3*	SMS24GE30*	SMS24SE3*	SMS24RE3*	SMS24GE33*			
SMS36GE3*	SMS36GE30*	SMS36SE3*	SMS36RE3*	SMS36GE33*			

\* for coding see page 11 Example: SMS12GE3J9 - SMS with 12 solid machined contacts, plating J9

## Straight board mount with male contacts







#### **Dimensions**

Nbr. of contact	Nbr. of discrimination cavities	А	В	С	D	E
2	0	11.1	-	19.1		
3	0	16.2	14.0	10.2		5.9
4	0	21.3	14.0	15.2		
6	0		19.2			10.9
9	4		24.2		13.4	16.0
12	0	16.2	29.2	10.2		21.1
15	8		34.3			26.1
18	10		39.4			31.2
24	0	21.2	39.4	15.2		31.2
36	0	46.5	15.2	54.6		20.9

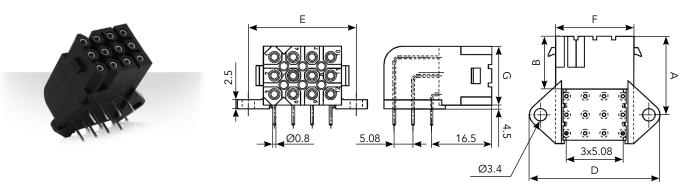
#### Contacts type

Part number							
	Standard version						
Solid machi	ned contacts	Stamped & fo	rmed contacts	Solid machined contacts			
PCB thickness 2.4mm PCB tail length 3.4mm	PCB thickness 3.2mm PCB tail length 4.2mm	PCB thickness 2.4mm PCB tail length 3.4mm	PCB thickness 3.2mm PCB tail length 4.4mm	PCB thickness 2.4mm PCB tail length 3.4mm			
SMS2GE4*	SMS2GE40*	SMS2SE4*	SMS2RE4*	-			
SMS3GE4*	SMS3GE40*	SMS3SE4*	SMS3RE4*	SMS3GE43*			
SMS4GE4*	SMS4GE40*	SMS4SE4*	SMS4SE4* SMS4RE4*				
SMS6GE4*	SMS6GE40*	SMS6SE4*	SMS6RE4*	SMS6GE43*			
SMS9GE4*	SMS9GE40*	SMS9SE4*	SMS9RE4*	SMS9GE43*			
SMS12GE4*	SMS12GE40*	SMS12SE4*	SMS12RE4*	SMS12GE43*			
SMS15GE4*	SMS15GE40*	SMS15SE4*	SMS15RE4*	SMS15GE43*			
SMS18GE4*	SMS18GE40*	SMS18SE4*	SMS18RE4*	SMS18GE43*			
SMS24GE4*	SMS24GE40*	SMS24SE4*	SMS24RE4*	SMS24GE43*			
SMS36GE4*	SMS36GE40*	SMS36SE4*	SMS36RE4*	SMS36GE43*			

\* for coding see page 11 Example: SMS12GE4J9 - SMS with 12 solid machined contacts, plating J9

## **Connectors** (Continued)

## Right angle board mount with female contacts



#### **Dimensions**

Nbr. of contact	Nbr. of discrimination cavities	Α	В	С	D	E	F	G
3	0	16.5		20.5	30.2	24.2	1/ 2	6.8
6	0	19.0	144	24.5	30.2	24.2	16.2	11.9
12	6	21 /	14.4	20 F	35.2	29.2	21.2	17.2
18	10	21.6	29.5	45.4	39.4	31.2	17.2	

#### Contacts type

	Part number				
Standa	Standard version				
Solid machined contacts	Stamped & formed contacts	Solid machined contacts			
PCB thickness 3.2mm PCB tail length 4.5mm	PCB thickness 3.2mm PCB tail length 4.5mm	PCB thickness 3.2mm PCB tail length 4.5mm			
SMS3GE5*	SMS3SE5*	SMS3GE53*			
SMS6GE5*	SMS6SE5*	SMS6GE53*			
SMS12GE5*	SMS12SE5*	SMS12GE53*			
SMS18GE5*	SMS18SE5*	SMS18GE53*			

\* for coding see page 11 Example: SMS12GE5J9 - SMS with 12 solid machined contacts, plating J9

#### Right angle board mount with female contacts 5.08 16.5 3x5.08 D **Dimensions** Ø3.4 Nbr. of discrimination Nbr. of contact В С Ε Α D G cavities 0 3 16.5 20.5 6.8 30.2 24.2 16.2 0 19.0 24.5 11.9 6 14.4 12 6 35.2 29.2 21.2 21.6 29.5 17.2

### Contacts type

18

	D			
	Part number			
Standard version		NFF certified version		
Solid machined contacts	Stamped & formed contacts	Solid machined contacts		
PCB thickness 3.2mm PCB tail length 4.5mm	PCB thickness 3.2mm PCB tail length 4.5mm	PCB thickness 3.2mm PCB tail length 4.5mm		
SMS3GE6*	SMS3SE6*	SMS3GE63*		
SMS6GE6*	SMS6SE6*	SMS6GE63*		
SMS12GE6*	SMS12SE6*	SMS12GE63*		
SMS18GE6*	SMS18SE6*	SMS18GE63*		

45.4

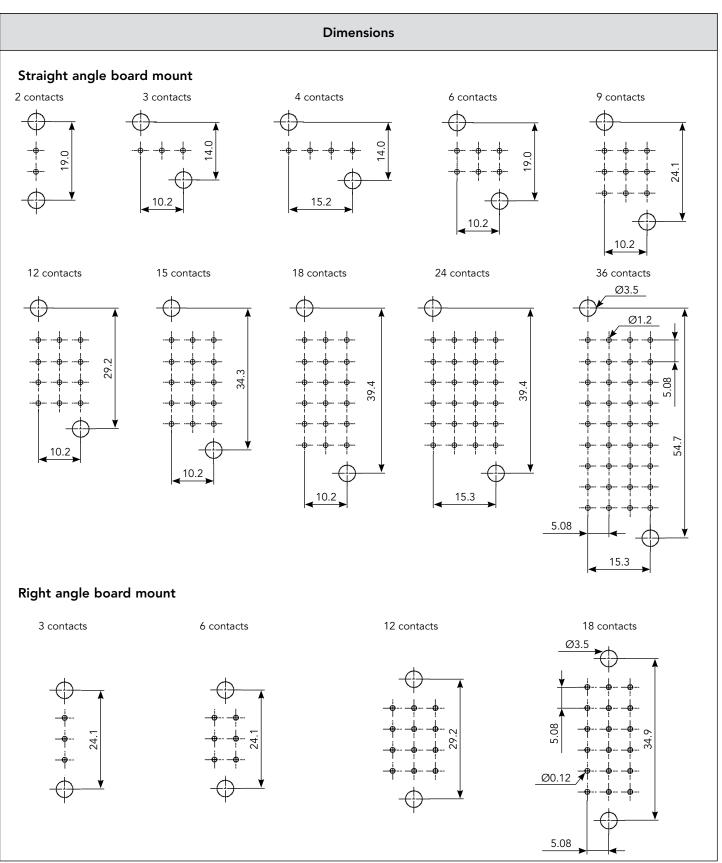
39.4

31.2

\* for coding see page 11 Example: SMS12GE6J9 - SMS with 12 solid machined contacts, plating J9

10

## **Drilling Pattern**



## **Quick Mating PC** board mount Pin Headers and plugs

#### Description

Quick Mating Pin Header, available in 3, 4, 6, 9 and 10 positions, provides the additional versatility of straight and right angle board mounting.

Offered as an alternative to stacked connectors, the in-line contact design of the pin header provides the user with significant PC board space savings.

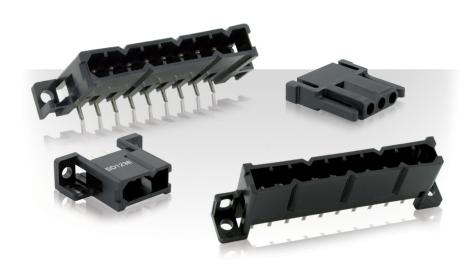
The board mount receptacle features positive polarization and a moulded on pin protection skirt and is supplied preassembled with straight or right angled:

- Solid machined or stamped and formed PC board pin contacts.
- Coax PC board pin contacts.

The socket cable plug features positive quick connect / disconnect latches and is designed to accept N° 16 TRIM TRIO 1.6mm diameter socket contacts for maximum contact protection.

#### Features and benefits

- Available in 3, 4, 6, 9 and 10 positions.
- In-line contact design, offering significant PC board space savings.
- Board mount connectors available in straight and right angled version preassembled with:
  - Solid machined or stamped and formed pin contacts.
  - Coax pin contacts.
- UL recognized File Nr.: E238675
- CSA metter certififed File Nr.: LR44961-21



#### **Environmental**

- Operating temperature: -55°C to +125°C
- Insulation resistance: 5000  $M\Omega$  min.
- Test potential: 2000 VAC
- Current rating:
  - 5 Amp for stamped and formed contacts
  - 7.5 Amps for machined contacts
- Durability: 500 matings and unmatings.

#### Material

- Connector body: Glass filled thermoplast UL94 V0 Color: Black
- Contacts: High conductive copper alloy

## Plating table

 Plating for solid machined contacts: No digit (std) = Min.  $0.4\mu$  Gold all over, over Nickel.

J = Gold flash over 2µ Ni

 $T = 3 - 5\mu$  Tin all over • Plating for Stamped and formed contacts:

D28 = Min. 0.75 $\mu$  Au over nickel.

D70 = Active part: Gold flash over Ni

Crimp area: Ni  $TR29 = 3 - 5\mu Tin all over$ 

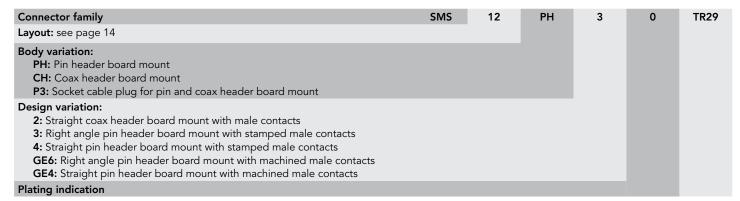
• Plating for coax contacts:

 $Z17 = Min. 0.75\mu$  Au in contact area, Flash on solder tail (inner) Min  $0.75\mu$  Au in contact area, Tin on solder tail (outer)

## Intermateability

- "SMS" Socket plugs accept TRIM TRIO size 16 removable snap-lock contacts (see contact section)
- Contacts to be ordered seperately.

## Ordering information



## **Connectors** (Continued)

#### Right angle pin header board mount with male contacts Ø3.5 Ø3.5 Δ $\cap$ 22.9 Part number Nbr. of Α В С contact Solid machined contacts Stamped & formed contacts SMS3PH3\* SMS3PHGE6 31.2 25.4 19.3 SMS4PH3\* SMS4PHGE6 4 36.3 30.4 24.4 SMS6PH3\* SMS6PHGE6 46.5 40.6 34.5 6

55.9

61.0

61.7

66.8

9

10

49.8

54.9

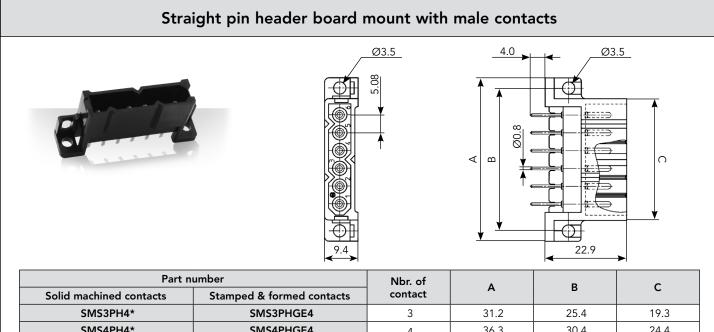
SMS9PHGE6

SMS10PHGE6

SMS9PH3\*

SMS10PH3\*

\* for coding see page 17 Example: SMS9PH3J9 - SMS with 9 solid machined contacts, plating J9

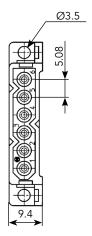


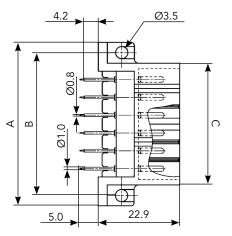
Fart number		Nbr. ot	Α	В	
Solid machined contacts	Stamped & formed contacts	contact	^	Ь	C
SMS3PH4*	SMS3PHGE4	3	31.2	25.4	19.3
SMS4PH4*	SMS4PHGE4	4	36.3	30.4	24.4
SMS6PH4*	SMS6PHGE4	6	46.5	40.6	34.5
SMS9PH4*	SMS9PHGE4	9	61.7	55.9	49.8
SMS10PH4*	SMS10PHGE4	10	66.8	61.0	54.9

\* for coding see page 17 Example: SMS9PH4J9 - SMS with 9 solid machined contacts, plating J9

## Straight coax header board mount with male contacts





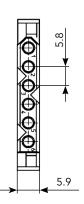


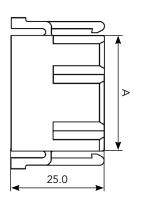
Part number	Nbr. of contact	Α	В	С
SMS3CH2Z17	3	31.2	25.4	19.3
SMS4CH2Z17	4	36.3	30.4	24.4
SMS6CH2Z17	6	46.5	40.6	34.5
SMS9CH2Z17	9	61.7	55.9	49.8
SMS10CH2Z17	10	66.8	61.0	54.9

<sup>\*</sup> for coding see page 17

## Socket cable plug for pin and coax board mount header







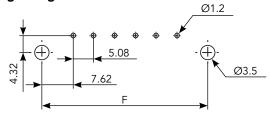
Part number	Number of contact*	A
SMS3P3	3	16.0
SMS4P3	4	21.1
SMS6P3	6	31.2
SMS9P3	9	46.5
SMS10P3	10	51.6

<sup>\*</sup>Contacts supplied separately

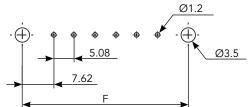
## **Drilling Pattern**

## **Dimensions**

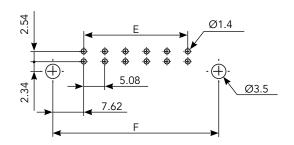
## Right angle Pin Header



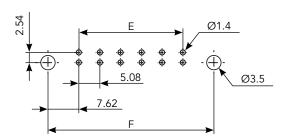
## Straight Pin Header



## Right angle Coax Header



## Straight Coax Header



Number of contact	E	F
3	10.18	25.40
4	15.24	30.48
6	25.40	40.64
9	40.64	55.88
10	45.72	60.96

## Discrimination keys for SMS connectors

In applications where similar connectors are used next to each other, mismatching can be a reason for disturbances, system failure or even danger to

To eliminate mismatching, all SMS can be equipped with discrimination solutions, which offer unlimited possibilities for a "fool-proof" interconnection

When one of these discrimination keys is used, the SMS will only mate with a connector which has a vacant contact or discrimination cavity at the corresponding position.

This system offers boundless opportunities for all applications.

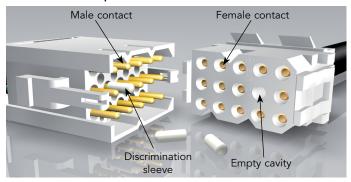
The material used is polyamide 6.6.

#### Both connectors have removable contacts: SMSPKE0



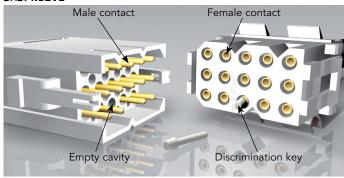
A dummy contact, which can be inserted into an empty contact cavity in any of SMS connectors.

#### Specially for connectors without discrimination cavities and without removable pin contact: SMSPKB2



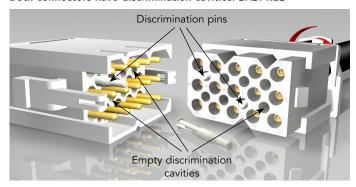
A tube, which can be fitted over a preassembled male contact in all industrial male boardmount connectors SMS.

#### For fixe female contacts and without discrimination cavities: SMSPKE2V1



A pin, which can be inserted into a preassambled female contact in all female boardmount connectors SMS.

#### Both connectors have discrimination cavities: SMSPKE3



A pin, which can be inserted in the discrimination cavities of the SMS Quick mating cable and boardmount connectors. The discrimination cavities are in between of the contact cavities and offer the advantage that no contact cavities are lost due to discrimination.

As extraction tool, the RX2025GE1 without the "extraction tool tip" can be used.



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