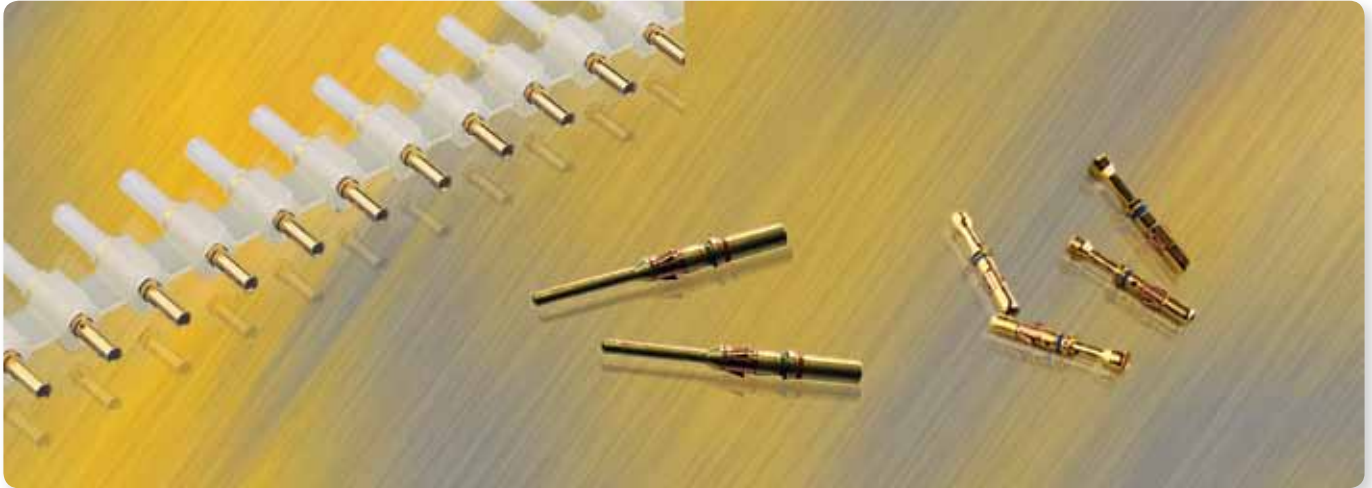



# RC/RM machined contacts size 16



	Description
	<p><b>Size 16 machined contacts for TRIM TRIO® connectors</b></p> <p>Size 16 RM/RC .0625" (1.6mm) diameter contacts are precision machined crimp snap-in pins and sockets for heavy duty top performance requirements. The socket inner spring supplies high contact pressure to ensure low resistance contact between pin and socket. The socket contact features closed entry to prevent probe damage. Crimp barrels have insulation grips for vibration support and are provided with a wire stop and inspection hole.</p> <p>Typical benefits are :</p> <ul style="list-style-type: none"><li>▪ Easy mounting &amp; dismounting</li><li>▪ Excellent cable retention as well as contact retention in the cavity</li><li>▪ Easy wire identification with color coding</li></ul>

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# RC/RM machined contacts size 16



## Technical characteristics

### Electrical

- Current per contact max.: 13 A according to SAE 39029  
15 A according to NFF61030
- Contact resistance:  $\leq 3 \text{ m}\Omega$
- Contact retention in body: 110 N min.
- Individual insertion force: 3.5 N max.
- Individual withdrawal force: 0.55 N min

### Construction

- Contact body: High conductive copper alloy

### Plating indication

- K (std) Min. 0.4 $\mu\text{m}$  gold all over, over nickel
- J Gold flash all over, over nickel
- N Min. 0.75 $\mu\text{m}$  gold all over, over nickel

Other plating, on request

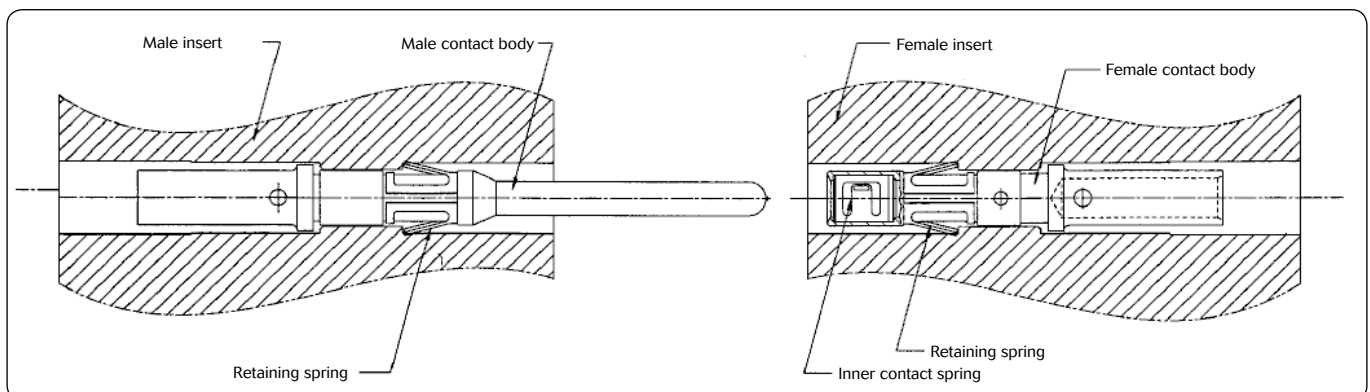
### Connector accommodation

- TRIM TRIO<sup>®</sup> RC/RM machined contact size 16 can be used in any contact position in any connector from the TRIM TRIO<sup>®</sup> interconnection system - UTP, UTS, UTG, LTO, MBG, MS-M, MSG / MB, SMS, UTV - as well as in VGE1 and 838 connectors

## Ordering information

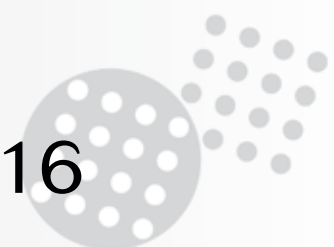
Type	(KRM)	16	M	23	(GE1)	K	-
RM Male contact bulk packing	(KRC)	16	M	23	(GE7)	K	-
RC Female contact bulk packing							
KRM Male contact on plastic carrier strip							
KRC Female contact on plastic carrier strip							
<b>Wire size :</b> 14, 16, 20, 24, 28							
<b>Contact size 16 :</b> .0625" (1.6mm) diameter contacts							
<b>Design variation :</b> Crimp barrel							
<b>Types of contact</b>							
No digit Standard contact							
GE1 Longer contact							
GE3 Shorter contact (only male contact)							
GE7 Shorter contact (only female contact)							
<b>Plating :</b> See plating indication							
<b>Packing quantity</b>							
No digit (std) 50 pcs bulk packing (RM/RC) 2000 pcs on reel (KRM/KRC)							
1000 1000 pcs bulk packing (RM/RC)							

## The RM/RC contact principle

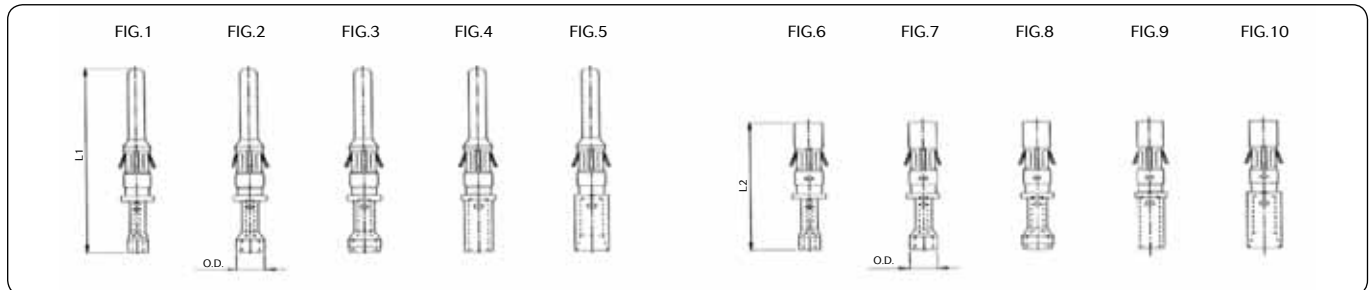


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# RC/RM machined contacts size 16



## Standard RM/RC crimp contacts: Contact size 16 - Pin Ø1.6mm (.063")



## Dimensional table - Standard RM/RC contacts

Part numbers				Wire size		Max. wire Ø	Max. insul. Ø	Wire strip length	O.D.**	L1	L2
Male contact	Fig.	Female contact	Fig.	AWG	mm <sup>2</sup>						
RM28M1(*)	1	RC28M1(*)	6	30-28	0.05-0.08	0.55	1.1	4.8	1.90	26.2	18.2
RM24M9(*)	2	RC24M9(*)	7	26-24	0.13-0.20	0.8	1.6		2.55		
RM20M13(*)	3	RC20M13(*)	8	22-20	0.32-0.52	1.18	1.8		2.92		
RM20M12(*)		RC20M12(*)					2.2	2.92			
RM16M23(*)	4	RC16M23(*)	9	20-16	0.52-1.50	1.80	3.2	7.1	2.55	26.2	18.2
RM14M50(*)	5	RC14M50(*)	10	16-14	1.5-2.5	2.05			3.10		
RM14M30(*)	5	RC14M30(*)	10	16-14	1.5-2.5	2.28			3.10		

\* Plating : See plating indication  
 For machined contacts reeled on plastic carrier: put «K» in front of part number e.g. KRM16M13K

## Dimensional table - Crimp RM/RC contacts

### Comparison with standard RM / RC contacts

	GE1	GE3	GE7
RM contact (male contact)	+ 1 mm	-1 mm	-
RC contact (female contact)	+ 1.5 mm	-	-0.6 mm

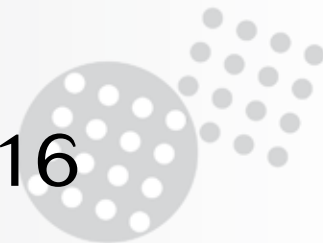
### Contact selector guide

	Standard RC contact	RM*GE1	RC*GE7
Standard RC contact	X		
Standard RM contact			Last Mate, First Break
RM*GE1	First Mate, Last Break	X	

First Mate, Last Break contact can be used as grounding contact.

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# RC/RM machined contacts size 16



## Longer RM/RC contacts

Part numbers				Wire size		Max. wire Ø	Max. insul. Ø	Wire strip length	O.D.**	L1	L2
Male contact	Fig.	Female contact	Fig.	AWG	mm <sup>2</sup>						
RM28M1GE1(*)	1	RC28M1GE1(*)	6	30-28	0.05-0.08	0.55	1.1	4.8	1.90	27.2	19.7
RM24M9GE1(*)	2	RC24M9GE1(*)	7	26-24	0.13-0.20	0.8	1.6		2.55		
RM20M13GE1(*)	3	RC20M13GE1(*)	8	22-20	0.32-0.52	1.18	1.8		2.92		
RM20M12GE1(*)		RC20M12GE1(*)					2.2				
RM16M23GE1(*)	4	RC16M23GE1(*)	9	20-16	0.52-1.50	1.80	3.2	7.1	2.55		
RM14M50GE1(*)	5	RC14M50GE1(*)	10	16-14	1.5-2.5	2.05			3.10		
RM14M30GE1(*)	5	RC14M30GE1(*)	10			2.28					

\* Plating : See plating indication

## Shorter RM/RC contacts

Part numbers		Wire size		Max. wire Ø	Max. insul. Ø	Wire strip length	O.D.**	L1
Male contact	Fig.	AWG	mm <sup>2</sup>					
RM28M1GE3*	1	30-28	0.05-0.08	0.55	1.1	4.8	1.90	25.2
RM24M9GE3*	2	26-24	0.13-0.20	0.8	1.6		2.55	
RM20M13GE3*	3	22-20	0.32-0.52	1.18	1.8		2.92	
RM20M12GE3*					2.2			
RM16M23GE3*	4	20-16	0.52-1.50	1.80	3.2	7.1	2.55	
RM14M50GE3*	5	16-14	1.5-2.5	2.05			3.10	
RM14M30GE3*	5			2.28				

\* Plating : See plating indication

Part numbers		Wire size		Max. wire Ø	Max. insul. Ø	Wire strip length	O.D.**	L2
Female contact	Fig.	AWG	mm <sup>2</sup>					
RC28M1GE7*	6	30-28	0.05-0.08	0.55	1.1	4.8	1.90	17.6
RC24M9GE7*	7	26-24	0.13-0.20	0.8	1.6		2.55	
RC20M13GE7*	8	22-20	0.32-0.52	1.18	1.8		2.92	
RC20M12GE7*					2.2			
RC16M23GE7*	9	20-16	0.52-1.50	1.80	3.2	7.1	2.55	
RC14M50GE7*	10	16-14	1.5-2.5	2.05			3.10	
RC14M30GE7*	10			2.28				

\* Plating : See plating indication

## Dimensional table - Handsolder RM/RC contacts

Part numbers		Wire size	
Male contact	Female contact	AWG	mm <sup>2</sup>
RM16SE0(*)	RC16SE4(*)	16-20	1.50-0.52

\* Plating : See plating indication

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# RC/RM machined contacts size 16



## Crimptooling table

Size	Hand crimp tooling for loose contacts			Automatic crimp tooling for contacts on strip		Extraction tools
	Hand tools die set included	MH860		P107 Press		
		Positioner (not incl.)	Locator setting	Left side applicator KRM/KRC (not incl.)	Stripper unit (not incl.)	
R*28M1	Y16RCM	86-164	4/6	-	SC11	RX2025GE1
R*24M9			5/6	MLSP2763		
R*20M12/13			5/7	MLSP2764		
R*16M23			6/8	MLSP2765		
R*14M50	*	-	-	-		
R*14M30			-	-		
R*28M1GE1	Y16RCM	86-186	4/6	-	-	
R*24M1GE1			5/6	-	-	
R*20*GE1			5/7	-	-	
R*16M23GE1			6/8	-	-	
R*14*GE1	*	-	-	-	-	
RM28M1GE3	Y16RCM	*	4/6	-	SC11	
RM24M1GE3			5/6	MLSP2763		
RM20*GE3			5/7	MLSP2764		
RM16M23GE3			6/8	MLSP2765		
RM14*GE3	*	-	-	-	-	
RC28M1GE7	Y16RCM	*	4/6	-	SC11	
RC24M1GE7			5/6	MLSP2763		
RC20*GE7			5/7	MLSP2764		
RC16M23GE7			6/8	MLSP2765		
RC14*GE7	*	-	-	-	-	

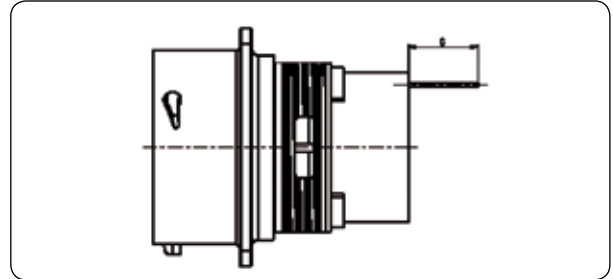
\* Consult factory

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# RC/RM machined contacts size 16

**Nominal length (dim G) of dipsolder contacts out of connector**  
(contacts to be ordered separately)



## UTS0 wall mounting receptacles

Connector sizes	Male contacts		Female contacts		
	RM20M12E8*	RM20M12E83*	RC20M12E8*	RC20M12E83*	RC20M12E84*
All sizes	5.2	10.3	5.2	10.4	13.9

\* Plating : See plating indication

## UTS7 jam nut receptacles

Connector sizes	Male contacts		Female contacts		
	RM20M12E8*	RM20M12E83*	RC20M12E84*	RC20M12E85*	RC20M12E86*
10	4.1	9.2	4.65	7.15	7.95
12	4.1	9.2	4.65	7.15	7.95
14	4.1	9.2	5.35	7.85	8.65
16	4.1	9.2	4.65	7.15	7.95
18	4.1	9.2	4.65	7.15	7.95
20		4.85		3.4	4.2
22		4.85		2.7	3.5
24		3.35		1.3	2.1

For recommended PC-Board hole layout, please consult factory

\* Plating : See plating indication

## The RM/RC contact packing



50 pcs bulk packing (standard)



1000 pcs bulk packing



Reeled contacts on plastic carrier (qty 2000 pcs)

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Note : all dimensions are in mm