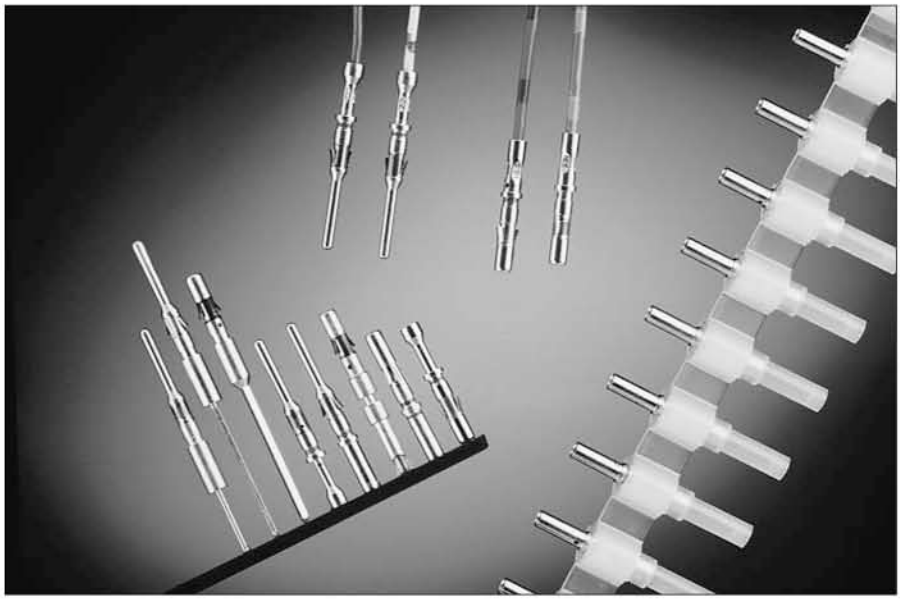
RM/RC

Size 16 solid machined contacts for TRIM TRIO connectors

Description

Size 16 RM/RC .063" (1.6mm) diameter contacts are precision solid machined crimp snap-in pin and sockets for heavy duty top performance requirements.
Springs on both contacts are made of spring-tempered, heat-treated, berylium copper.
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 cable stop and inspection hole.



Features and benefits

- Made from high conductive copper alloy with gold or tin over nickel plate finish.
- Heat-treated beryllium copper locking springs assure proper locking and alignment of contacts in the housing.
- Closed entry design on RC socket contact to prevent probe damage.
- Contacts available in bulk packing

Performance characteristics

Current rating:	13 Amp
Contact resistance:	≤ 3 mΩ
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.

Outer spring: Tempered, heat-treated, berylium copper.

Inner spring socket: Tempered, heat-treated, plated berylium copper.

Plating table

K (std) = Min. 0.4µm Gold all over,over Nickel
J = Gold flash all over, over Nickel
N = Min. 0.75 µm Gold all over,over Nickel
T = 3 - 5 µm Tin all over, over Nickel
Other platings on request

Connector accommodation

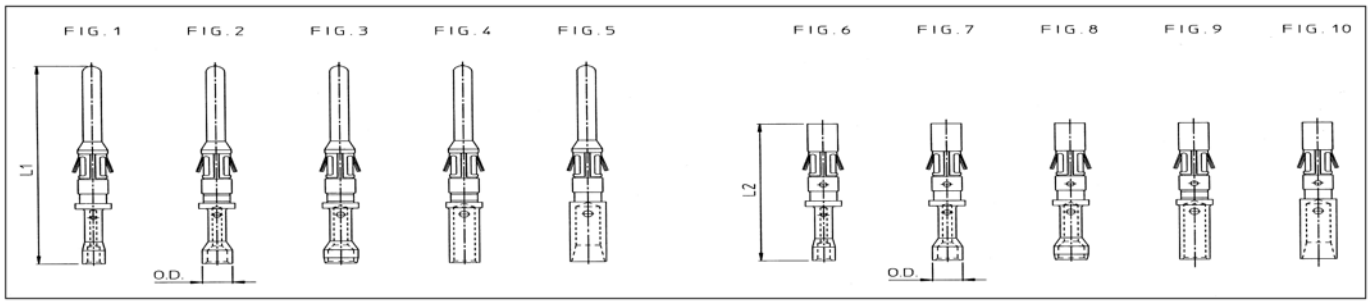
Any TRIM TRIO size 16 contact can be used in any contact position in any connector in the TRIM TRIO size 16 interconnection system.

- MS-M / MSG / MB
- SMS Qikmate
- UTG
- UTP
- UT0
- MBG
- UTS

How to order

		(K) RM	**16**	**M**	**23**	**(GE1)**	**K**	**–**
		(K) RC	**16**	**M**	**23**	**(GE1)**	**K**	**–**
Contact type:	**RM:** Male contact bulk packing **RC:** Female contact bulk packing **KRM:** Male contact on plastic carrier strip **KRC:** Female contact on plastic carrier strip							
AWG Size:	14, 16, 20, 24, 28							
Size 16:	.0625" (1.6mm) Diameter contacts							
Design variation:	Crimp barrel							
Grounding contact:								
Plating indication:	See plating table							
Packing quantity:	**No digit (std) :** 50 pcs. bulk packing (RM/RC) **:** 2000 pcs on reel (KRM/KRC) **1000 :** 1000 pcs bulk packing (RM/RC)							

Standard RM/RC crimp contacts: Contact size 16 - Pin diameter 1.6mm (.063")



Dimensional table

Part number				Wire size								
Pin contacts	Fig.	Socket contacts Standard	Fig.	AWG	mm²	Max. wire dia.	Max. insul. dia.	Wire strip length	O.D.	L1	L2
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	27,2	19.7
RM16M23GE1(*)		RC16M23GE1(*)	9								
RM14M50(*)	5	RC14M50(*)	10	16-14	1,5-2,5	2,05			3,10	26,2	18.2
RM14M30(*)	5	RC14M30(*)	10	16-14	1,5-2,5	2,28			3,10		

(*) Plating indication : See plating table
For machined contact reeled on plastic carrier: put "K" in front of part number e.g. KRM16M23K
For male grounding contacts (1 mm longer) add "GE1" to the part number (e.g. RM16M23GE1K)
For female grounding contacts (1.5 mm longer) add "GE1" to the part number (e.g. RC16M23GE1K)
For female last make contacts (0.6 mm shorter) add "GE7" to the part number (e.g. RC16M23GE7K)

Special RM / RC contacts: Contact size 16 - Pin diameter 1.6mm (.063")

Part number			Wire size		Post cross section A	Length out of TRIM TRIO cavity	Anti-rotating bushing part number
Pin contacts	Socket contacts	Type	AWG	mm²			
RM16SEO(*)	RC16SE4(*)	Handsolder	16 - 20	1.50 - 0.52	ø1.7	3.5	-
RM20M12G4(*)	RC20M12G4(*)	Mini - wrap	28 - 30	0.08 - 0.05	ø 0.636	16.0	J1661

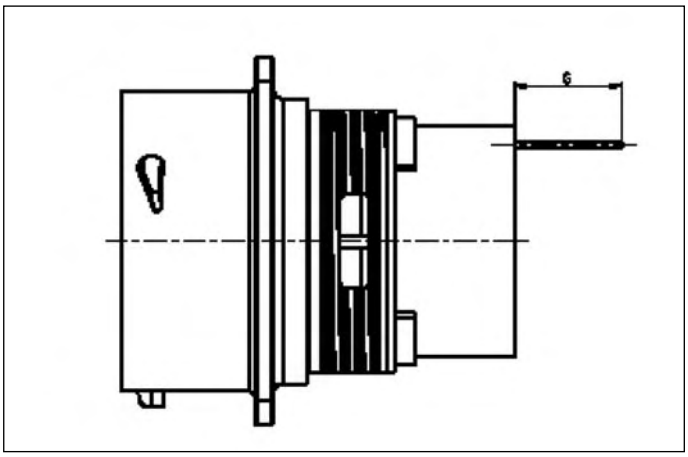
(*) Plating indication : See plating table.

Crimptooling table

Size	Hand crimp tooling for loose contacts			Automatic crimp tooling for contacts on strip		Extraction tools
	Hand tools	MH860		P100MAN (Press)		
	die set included	Positioner (not incl.)	Locator setting	Left side applicator KRM/KRC (not incl.)	Stripper unit (not incl.)	
28-1	Y16RCM or AF8 + TP120	MH86164G	4/6	--	Consult Factory	RX2025GE1 or RX16D11D1
24-9			5/6	MLSP2763		
20-12/13			5/7	MLSP2764		
16-23			6/8			
16-GE1		MH86186		MLSP2765		
14-50		--	--	--	--	
14-30		--	--	--		

For detailed information on crimp tooling : See crimp tooling section

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



UTP0 / UTG0 wall mounting receptacle connectors

Connector size	Pin contact		Socket contact		
	RM20M12E8*	RM20M12E83*	RC20M12E8*	RC20M12E83*	RC20M12E84*
All sizes	5.2	10.3	5.2	10.4	13.9

* Plating indication: See (plating table)

UT00 wall mounting receptacle connectors

Connector size	Pin contact		Socket contact		
	RM20M12E8*	RM20M12E83*	RC20M12E8*	RC20M12E83*	RC20M12E84*
10	4	9.1	3.3	8.5	12.1
12	4	9.1	3.3	8.5	12.1
14	4	9.1	3.3	8.5	12.1
16	4	9.1	3.3	8.5	12.1
18	4	9.1	3.3	8.5	12.1
20	4.1	9.2	1.8	7	10.6
22	4.1	9.2	1.1	6.3	9.9
24	4.1	9.2	1.1	6.3	9.9

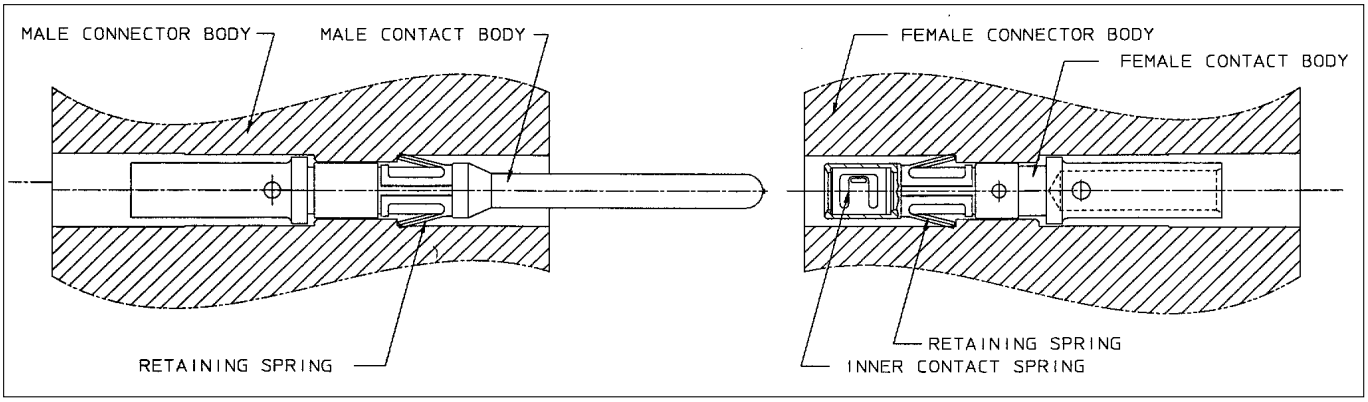
* Plating indication: See (plating table)

UT07 jam nut receptacle connectors

Connector size	Pin contact		Socket contact		
	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 lay out: Consult factory
* Plating indication: See (plating table)

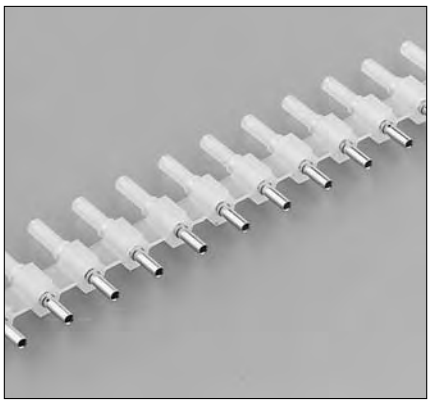
The RM/RC contact principle



The RM/RC contact packing


50 pcs bulk packing (standard)


1000 pcs bulk packing


Reeled contacts on plastic carrier (qty 2000 pcs)