Contacts



Overview TRIM TRIO contacts



TRIM TRIO contacts are a wide and versatile range that are offered in many options for crimp, coax and fibre optic applications

This section gives an overview on available rectangular connectors for:

1. Size 16 contacts (1.6mm).

- RM/RC High performance machined contacts.
- SM-M/SC-M Stamped and formed contacts.
- RMDX/RCDX Coax Contacts.
- Fibre optic contacts

2. Size 20 contacts (1.0mm).

- RM-W/RC-W High performance machined contacts.
- SM-W/SC-W Stamped and formed contacts.

3. 8291 power contacts.

- Size 12 contacts (2.4mm)
- Size 8 contacts (3.6mm)

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:	$\leq 3 \text{ m}\Omega$

Contact retention in body:	110 N min.
Individual insertion force:	3.5 N max.
Individual withdrawal force	e: 0.55 N min.



Construction

Contact body: High conductive copper alloy.

Outer spring: Tempered, heat-treated,

beryllium copper.

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

Plating table

- \overline{K} (std) = Min. 0.4 μ Gold all over,over Nickel
- J = Gold flash all over, over Nickel
- N = Min. 0.75 μ Gold all over,over Nickel

T = $3 - 5 \mu$ 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

How to order

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





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

FIG. 1	FIG.2	FIG.3	FIG.4	FIG.5	FIG.6	FIG.7	F1G.8	FIG.9	FIG. 10

Dimensional table

	Part nu	mber		Wire	e size	Max	Max	Wire												
Pin contacts	Fig.	Socket contacts Standard	Fig.	AWG	mm²	wire dia.	insul. dia.	strip length	O.D .	L1	L2									
RM28M1(*)	1	RC28M1(*)	6	30-28	0.05-0.08	0.55	1.1		1,90											
RM24M9(*)	2	RC24M9(*)	7	26-24	0.13-0.20	0.8	1.6	4.0	10	10	10	10	10	10	10	10	10	2,55		
RM20M13(*)	2	RC20M13(*)	0	22.20	022052	1 10	1.8	4.0	2,92	26,2	18.2									
RM20M12(*)	3	RC20M12(*)	0	22-20	22-20 0.32-0.32	1.10	2.2		2,92											
RM16M23(*)		RC16M23(*)	9	20.16	0 5 2 1 5 0	1 00														
RM16M23GE1(*)	4	RC16M23GE1(*)	9	20-10	0.52-1.50	1.00	2.2	71	2,55	27,2	19.7									
RM14M50(*)	5	RC14M50(*)	10	14	2,5	2,05	3.Z	7.1	3,10	26.2	10.0									
RM14M30(*)	5	RC14M30(*)	10	14	2,5	2,28			3,10	26,2	18.2									

(*) Plating indication : See plating table

For machined contact reeled on plastic carrier: put "K" in front of part number e.g. KRM16M23K

For grounding contacts (1 mm longer) add "GE1" to the part number (e.g. RM16M23GE1K) For last make contacts (1 mm shorter) add "GE3" to the part number (e.g. RM16M23GE3K)

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

	Part nu	ımber			Wire	size	Post cross	Length out	Anti-
Pin contacts	Fig.	Socket contacts	Fig.	Туре	AWG	mm²	section A	or TRIM TRIO cavity	bushing part number
RM16SEO(*)	1	RC16SE4(*)	6	Handsolder	16 - 20	1.50 - 0.52	ø1.7	3.5	-
RM20M12G4(*)	2	RC20M12G4(*)	7	Mini - wrap	28 - 30	0.08 - 0.05	ø 0.636	16.0	J1661

(*) Plating indication : See plating table.

Crimptooling table

		Hand o	Automatic c for contac	rimp tooling ts on strip					
Size	Hand tools	мн	B60 M10S1		M1051 M8ND		P100MAN (Press)		Extraction
	die set included	Positioner	Locator setting	Die set	Stop bushing	Die set	Left side applicator KRM/KRC	Stripper unit	tools
		(not incl.)		(not incl.)	(not incl.)	(not incl.)	(not incl.)	(not incl.)	
28 -1			4/6	S9		N24RT10			
24 -9]	MH86164G	5/6		SL40		MLSP2763	Consult	
20 -12/13	y16RCM		5/7	S10]	N20RT30	MLSP2764	Factory	RX2025GE1
16 -23			6/8	S3D1	SL39	N16RT21			or
16 -GE1	or	MH86186			SL115	N16RT25	MLSP2765		RX2025GE2
14 -50				S3-14	SL39			_	or
14 -30	AF8 +								RX16D11D1
	TP 120								

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	
Connector size	RM20M12E8	RC20M12E8	RC20M12E83	RC20M12E84
All sizes	5.2	5.2	10.4	13.9

UT00 wall mounting receptacle connectors

Connector size	Pin contact		Socket contact		
Connector size	RM20M12E8	RC20M12E8	RC20M12E83	RC20M12E84	
10					
12					
14	4	3.3	8.5	12.1	
16					
18					
20			7	10.6	
22	4	1.10	6.2	0.0	
24			0.3	9.9	

UT07 jam nut receptacle connectors

Connector size	Pin contact		Socket contact				
Connector size	RM20M12E8	RC20M12E84	RC20M12E84	RC20M12E86			
10			4.65	7.95			
12			4.65	8.65			
14	4.08	12.33	5.35	7.95			
16			4.65	7.95			
18			4.65	7.95			
20		9.01		4.21			
22	_	8.01	_	3.51			
24		6.5		2.1			

For recommended PC-Board hole lay out: Consult factory





The RM/RC contact principle



The RM/RC contact packing



50 pcs bulk packing (standard)





Reeled contacts on plastic carrier (qty 2000 pcs)

SM/SC-M



Size 16 stamped and formed contacts for TRIM TRIO connectors

Description

Size 16 SM/SC .063" (1.6mm) diameter contacts are two piece strip formed crimp snap-in pin and sockets.

These contacts consist of a crimp body made of high conductive copper alloy, and a stainless steel retaining spring featuring retention in the housing cavity and a closed entry socket to prevent probe damage. The contact with its open barrel is standard available on srtip and packaged with 3000 pcs on reel. This reel packaging combined with semi or even full automatic crimp tooling provides the added advantage of a lower installed cost.

Features and benefits

- Made from high conductive copper alloy
- with gold or tin over nickel plate finish.
 Two piece construction with dual purpose spring which serves for contact retention and purpose the back essent depage.
- and protects the body against damage.Contacts available on reel (standard) and in bulk packing (100 pcs).
- Suitable for high volumes and lower installation cost.

Performance characteristics

Current rating:	13 Amp
Contact resistance:	$\leq 6 \text{ m}\Omega$
Contact retention in body	CE N min

Contact retention in body.	05 14 11111.
Individual insertion force:	3.5 N max.
Individual withdrawal force:	0.55 N min.



Construction

Contact body: High conductive copper alloy. Outer spring: Stainless steel

Plating table

- S6 = 0.75m Gold min. in contact area,
- flash on crimp barrel over Nickel.
- D70 = Gold flash all over, over Nickel.
- TK6 = Preplated Tin all over.

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

Note:

Reeled contacts are for applicator with left side feeding.

How to order

		SM SC	16 16	M	(L) (L)	1 1	56 56	
Contact type:	SM: Male contact SC: Female contact							
AWG Size:	14, 16, 20, 24							
Type of crimp barrel:	American open crimp ba	irrel						
Packing:	No digit: Contacts on s L: Preformed loose piece	No digit: Contacts on strip (qty 3000 per reel) L: Preformed loose piece contacts						
Design variation	 1 : Only wire crimp for size 14 and 16 : Wire + insulation crimp for sizes 20 and 24 11 : Wire + insulation crimp for size 16 							
Plating indication:	See plating table							





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



Dimensional table

Part num	Part number: contacts on strip Loose pieces			Wire	e size	Inculation	Wine
Pin contacts	Fig.	Socket contacts	Fig.	AWG	mm²	diameter	strip length
SM24M1S6	1	SC24M1S6	2	26 - 24	0.13 - 0.25	0.89 - 1.58	4.0
SM24ML1S6		SC24ML1S6					
SM20M1S6	3	SC20M1S6	4	22 - 20	0.35 - 0.50	1.17 - 2.08	4.0
SM20ML1S6		SC20ML1S6					
SM16M1S6	5	SC16M1S6	6	18 - 16	0.80 - 1.50	2.0 - 3.0	4.65
SM16ML1S6		SC16ML1S6					
SM16M11S6	7	SC16M11S6	8	18 - 16	0.80 - 1.50	3.0	6.35
SM16ML11S6		SC16ML11S6					
SM14M1S6	9	SC14M1S6	10	14	2.0 - 2,5	3.2	6.35
SM14ML1S6		SC14ML1S6					

For other platings: See plating table.

Crimptooling table

	Hand crimp tooling	for loose contacts	Automatic c contact	Extraction	
Size	Hand tools die set included	M8ND Die set (not included)	P100 MAN Mini Applicator (not included)	K750 ASC (Stripper - crimper) Mini Applicator (not included)	tooling
24	Y16SCM2 (ratchet)	N24RT11	MLS0318B	MLS24M1	
20	Y14SCM2 (not ratchet) Y14MTV (ratchet)	N20RT29	MLS0555A	MLS20M1	
16M(L)11	y16SCM2 (ratchet) y14SCM2 (not ratchet)	N16RT26	MLS0356A	MLS16M11	RX2025GE1 or
16M(L)1	y 14SCM (ratchet) y 14MTV (ratchet)	N16RT24	MLS 1579	MLS16M1	RX2025GE2 or
14	y 14SCM (ratchet) y 14MTV (ratchet)	N 14RT 13	MLS1047	MLS14M1	RX16D11D1

For detailed information on crimp tooling : See crimp tooling section

RMDX/RCDX



Size 16 MULTIPIECE COAXIAL contacts for TRIM TRIO connectors

Description

Size 16 RMDX/RCDX Monocrimp .0625" (1.6mm) diameter contacts are one-piece monocrimp subminiature coaxial contacts to cover a wide range of subminiature coaxial and twisted pair cables. They provide cost effective solutions in applications where a mix of signal, power and coaxial cable terminations for low frequency, shielded signal and high frequency applications are needed. Monocrimp one piece coaxial contacts offer high reliability plus the economic advantage of a 95% reduction in installation time over conventional assembly methods currently in use.

Features and benefits

- The monocrimp one-piece coaxial contacts offer high reliability plus the economic advantage of a 95% reduction in installation time over conventional assembly methods.
- This economy is achieved by simultaneously crimping of both the inner and outer conductor

Performance characteristics

Operating voltage between	
inner / outer contact:	230 VDC
Test potential between	
inner / outer contact	450 VAC 1 min.
Operating temperature:	-55°C t0
	+ 125°C
Contact retention in body:	65 N min.
Contact voltage drop a 1A:	30m V max.
Isolation at 30 MHZ:	140 db.



Construction

Inner and outer contacts: High conductive copper alloy

Retaining spring: berylium copper Insulating bushing: Polyamide 6.6

Plating table

Retaining spring: Nickel plated Inner and outer contacts: D28: 0.75 μ Gold min. over Nickel

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

How to order

	R	RMDX RCDX	K10 K1	D28 D28
Contact type:	RMDX = Male subminiature coax. RCDX = Female subminiature coax.			
Monocrimp desig	gn variation			
Plating indicatio	n			

RMDX/RCDX



MONOCRIMP Subminiature coax



Part number				Coax din	nensions		Coax	strip len	gths	Crimp to	ol M10S1	
Male Female	AWG inner conduct.	Cable type	D max	E	F	G	A	В	С	Die set not incl.	stop bushing not incl.	Extraction tool
RMDX6050D28		-	2.64	2.11	1.70	0.30	5.1		8.9	S80		
RCDX6050D28	30											
RMDX6050D28		-	2.29	1.63	1.22		4.2		8.5	S87		
RCDX6050D28												
RMDX6032D28	28	-	2.90	2.29	1.91	0.38			11.7	S80		
RCDX6032D28												
RMDX6024D28		-	1.78	1.37	0.97	0.48				S82		
RCDX6024D28												
RMDX6032D28		RG174/U	2.92	2.24	1.52	0.48	5.1	6.35		S80	SL105	RX2025GE1
RCDX6032D28												
RMDX6026D28	26	-	3.05	2.44	1.96	0.41				S82		OR
RCDX6026D28												
RMDX6036D28		RG188A/U	2.79			0.51			11.7	S80		RX16D11D1
RCDX6036D28												
RMDX6036D28		RG316/U	2.72	1.98	1.52							
RCDX6036D28												

* M10SG8 consists of die set, stop bushing and M10S1 tool





MONOCRIMP Twisted pair



Part number AWG		Dia. outer	Cab	le strip len	ghts	Crim M1		
Male Female	inner conduct.	jacket (single wire)	A	В	с	Die set not incl.	Stop bushing not. incl.	Extraction tool
RMDX6019D28 RCDX6019D28	26 (19 x 0.10) 24 (7 x 0.20) 24 (19 x 0.13)	1.25 1.25 1.45	4.7	6.0	4.0	M10 Crimp	RX2025GE1 or	
RMDX6031D28 RCDX6031D28	26 (7 x 0.16)	0.70				S80	SL105	RX16D11D1

 * M10SG8 consist of die set, stop bushing and M10S1 tool.



RMDX/RCDX



Size 16 monocrimp COAXIAL contacts for TRIM TRIO connectors

Description

Size 16 RMDX/RCDX Multipiece .0625" (1.6mm) diameter contacts are subminiature coaxial contacts to cover a wide range of subminiature coaxial and twisted pair cables.

They are suitable in applications where a mix of signal, power and coaxial cable terminations for low frequency, shielded signal and high frequency applications are needed.

The contact consist of an inner pin/socket and an outer male/female body. The thermoplastic insulating bushing in the outer body is designed to accept and permanently retain the inner contact. The outer ferrule hold the outer braid to the outer contact and act as an insulating support to ensure against bending and vibrating stresses.

The inner and the outer conductor are crimped individually, thereby enabling inspection of both critical crimp points.

Features and benefits

- The inner and outer conductors are crimped individually
- The thermoplastic insulating bushing in the outer body is designed to accept and permanently retain the inner contact.
- Outer ferrule hold the outer braid to the outer contact and act as an insulating support to ensure against bending and vibration.

Performance characteristics

 Operating voltage between inner / outer contact:
 230 VDC

 Test potential between inner / outer contact
 750 VAC 1 min.

 Operating temperature:
 -55°C to + 125°C

 Contact retention in body:
 65 N min.

 Contact voltage drop a 1A:
 25m V max.

 Isolation at 30 MHZ:
 140 db.



Construction

Inner and outer contacts: High conductive copper alloy

Retaining spring: berylium copper Insulating bushing: Polyamide 6.6

Plating table

Retaining spring: Nickel plated Inner and outer contacts:

D28: 0.75µ Gold min. over Nickel

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 • UTO
- MBG

How to order

	RMDX60 RCDX60	36 36	D28 D28
Contact type:	RMDX = Male subminiature coax. RCDX = Female subminiature coax.		
Multipiece coax kit	K10 = Lit male coax. K1 = Kit female coax.		
Plating indication			



RMDX/RCDX

MULTIPIECE Subminiature coax - Male contact for coaxial cable



	Contact for inner conductor					Contact for outer braid							
Type of coaxial	e of Inner female Crimp tool		ol M10S1	0S1 Outer male contact		Hyring		Crimp tool M10S1		Extrac tool			
cable	Part number	Fig.	Die Set	Stop Bushing	Part number	Fig	Part number	Fig	Die Set	Stop Bushing			
RG161 U													
RG179A/U													
RG179B/U			S23D2				YOC074	4			RX2025		
RG187U											GE1		
RG174/U													
RG188/U	RFD26L1D28	2		SL46D2	RMDX602D28	1	YOC074	4	S22-1	SL47-1	RX16D11		
Amphenol			S26D2								D1		
21-598													
RG178A/U							YOC074	4					
RG196U			S23D2				+						
							RMDXB0553	3					

Kit reference RMDXK10D28 includes RMDX602D28 + RFD26L1D28 + YOC074 + RMDXB0553 and are packed in plastic bag.

MULTIPIECE Subminiature coax - Female contact for coaxial cable



Contact for inner conductor					Contact for outer braid							
Type of coaxial	Type of Inner male coaxial contact		Crimp tool M10S1		Outer fei conta	Outer female contact		Hyring		Crimp tool M10S1		
Cable	Part number	Fig.	Die Set	Stop Bushing	Part number	Fig	Part number	Fig	Die Set	Stop Bushing		
RG161 U												
RG179A/U							YOC074	4			RX2025	
RG179B/U			S23D2								GE1	
RG187U												
RG174/U											or	
RG188/U	RMD26L1D28	2	S26D2	SL46D2	RCDX602D28	1	YOC074	4	S22-1	SL47-1		
Amphenol											RX16D11	
21-598											D1	
RG178A/U							YOC074	4				
RG196U			S23D2				+					
							RCDXB0551	3				

Kit reference RCDXK1D28 includes RCDX602D28 + RMD26L1D28 + YOC074 + RCDXB0551 and are packed in plastic bag.





MULTIPIECE Subminiature coax - Male contact for twisted pair cable



	Conta	Contact for inner conductor					Contact for outer braid						
Type of Inner female coaxial contact		nale ct	Crimp tool M10S1		Outer m conta	Outer male contact		g	Crimp to	ol M10S1	Extrac tool		
cable	Part number	Fig.	Die set	Stop bushing	Part number	Fig	Part number	Fig	Die set	Stop bushing			
2 #24 solid							YORX090	4					
or stranded							YOC074	5			RX2025		
2 #26 str							RMDXB0553	3			GE1		
2 #24													
7/0,20 str.							YORX090	4			or		
MIL-W-76 or	RFD26L1D28	2	S26D2	SL46D2	RMDX602D28	1	YOC074	5	S221	SL471			
MIL-W-16878							RMDXB0554	3			RX16D11D1		
type B													
#28 per							YORX090	4					
MIL-W-							YOC074	5					
81822/3							RMDXB0553	3					

MULTIPIECE Subminiature coax - Female contact for twisted pair cable

FIG.1	FIG.2	F1G.3	FIG.4	FIG.5
	0.95	182	279	
18.80	12.20	6.35	6.22	10.41

	Contact for inner conductor				Contact for outer braid						
Type of coaxial	Inner male contact		Crimp tool M10S1		Outer female contact		Hyring		Crimp tool M10S1		Extrac
cable	Part number	Fig.	Die set	Stop bushing	Part number	Fig	Part number	Fig	Die set	Stop bushing	
2 #24 solid							YORX090	4			
or stranded							YOC074	5			RX2025
2 #26 str							RCDXB0551	3			GE1
2 #24											
7/0,20 str.							YORX090	4			or
MIL-W-76 or	RMD26L1D28	2	S26D2	SL46D2	RCDX602D28	1	YOC074	5	S221	SL471	
MIL-W-16878							RCDXB0552	3			RX16D11D1
type B											
#28 per							YORX090	4			
MIL-W-							YOC074	5			
81822/3							RCDXB0551	3			



Fibre optic contacts



Size 16 Fibre optic contacts for TRIM TRIO connectors

Description

Size 16 Fibre optic contacts are optical contacts designed for the integration of optical links in all TRIM TRIO cable connectors.

The F.O. contacts are designed to accommodate:

- Plastic Optical Fibre (POF)
 1mm core and 2.2mm jacket
- Plastic Clad Fibre (PCF)
 230 µm core and 2.2mm jacket
- Multimode Silica Fibre 50/125 µm type 1.5mm (or 900µm) iacket

Features and benefits

- Socket contact is spring loaded to avoid any air gap between the two optical faces.
- Low insertion loss is provided by high precision pieces.
- Single jumpers, multiway harness and active device housings can be supplied regarding customer requirement.

Performance characteristics

POF / PCF	Silica 50 / 125µm
650 nm	850 or 1300 nm
2 dB max.	< 0.5 dB
2.2mm	1.5mm (or 0.9mm with adaptor)
-25°C to +70°C	-40°C to +70°C
49N	60N
50	50
500	250
	POF / PCF 650 nm 2 dB max. 2.2mm -25°C to +70°C 49N 50 500

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

Construction

Contact body: Copper alloy Outer spring: BeCu

How to order

POF Contacts (Plastic Optical Fibre)
Male contact:	RMPOF1000
Female contact:	RCPOF1000
PCF Contacts (I	Plastic Clad Fibre)
Male contact:	RMPCF230

Female contact:	RCPCF230	
Male contact:	RMPCF230	

Silica Contacts

Male contact:	8012P14G353
Female contact:	8012S14G353

Tool kit

Crimping / polishing technic

The tool kit contains all necessary tools to terminate contacts for POF fibre or Silica fibre, such as

- Stripping plier
- Crimping plier
- Polishing plate and tool
- Miscallaneous

Part number: consult factory



Fibre optic contacts

Notes

115



RM/RC-W machined contact SM/SC-W stamped contacts

Size 20 contacts for UTOW connectors

Description

Size 20 contacts with a .040" (1.0mm) pin diameter are two piece crimp snap-in contacts in pin and socket version available in:

- Solid machined version
- · Stamped and formed version
- Solid machined dip solder contacts

- 50A7

- 5016 And designed for heavy duty top performance requirements. These contacts consist of a crimp/solder body made of high conductive copper alloy, and a stainless steel retaining spring featuring retention in the housing cavity and a closed entry socket to prevent probe damage.

Crimp contacts accommodate AWG20 through AWG26 wire and the crimp barrels.

All contacts have to be ordered separately

Features and benefits

- Made from high conductive copper alloy with gold plate finish.
- Two piece construction with dual purpose spring which serves for contact retention and protects the body against damage.
- Stamped and formed contacts packaging - On reel: 3000 pcs
- In bulk packing: 100 pcs in plastic bag
 Solid machined crimp and dip solder
- contacts packaging
- 50 pcs in plastic box

How to order



Performance characteristics

	Machined		Stamped and Formed
Current rating:	7,5 Amps		5 Amps
Contact resistance:	$\leq 6 \text{ m}\Omega$		\leq 15 m Ω
Dielectric withstanding voltage:		1500 V Rms min	
Contact retention in body:		90 N max.	
Contact engagement force:		5 N max.	
Contact separation force:		2 N min.	
Plating:	0.40 µ gold c	over nickel	0.75 µ gold over nickel

Construction

Contact body: High conductive copper	
alloy.	
Outer spring: Stainless steel	

Connector accommodation

Any size 20 contacts for UTOW connectors can be used in any contact position.

	Contact type			Part number	AWG	Section mm2	Insulation diameter	Tooling
	30.8	Pin		RM24W3K	26 – 24	0.13 - 0.25	0.89 - 1.58	MH860 +
mp				RM20W3K	22 - 20	0.35 - 0.50	1.17 – 2.08	
	9 8			RM18W3K	20 - 18	0.50 - 1.00	1.20 - 2.10	positionner
ach cri	22.5			RC24W3K	26 - 24	0.13 - 0.25	0.89 - 1.58	MH86301
Z		Socket		RC20W3K	22 - 20	0.35 - 0.50	1.17 – 2.08	-
	9 9			RC18W3K	20 - 18	0.50 - 1.00	1.20 - 2.10	
28 La cormed		Ree	eled piece	SM24W3S26 SM24WL3S26	26 – 24	0.13 - 0.25 0.89 - 1.58		
		Pin Ree loose	eled piece	SM20W3S26 SM20WI 3S26	22 – 20	0.35 – 0.50	1.17 – 2.08	V16SCM3 or
Stamped &	Reeled loose piece	eled piece	SC24W3S25 SC24WL3S25	26 – 24	0.13 - 0.25	0.89 - 1.58	y 14MTV	
		Socket Ree loose	eled piece	SC20W3S25 SC20WL3S25	22 - 20	0.35 – 0.50	1.17 – 2.08	
^		504		RMW50AK7				
Machined Dip solder		Pin -	5016	RMW5016K				
	B	Socket	50A7	RCW50A7K	For solder tail details see next			iye.
		SUCKET	5016	RCW5016K				



RM/RC-W Machined Contacts

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



UTOWO wall mounting receptacle connectors

Connoctor cizo	Pin contact			
Connector size	RMW50A7K	RMW5016K	RCW50A7K	RCW5016K
10				
12				
14	9.43	10.33	9.85	10.50
16				
18				
20				
22	9.24	10.32	7.65	8.31
24				

UTOW7 jam nut receptacle connectors

Corrector size	Pin contact	Socket contact					
Connector size	RMW50A7K	RMW5016K	RCW50A7K	RCW5016K			
10							
12							
14	9.51	10.41	2.4	3.04			
16							
18							
20	F	6					
22	5	0	-	-			
24	3.6	4.6					

For recommended PC-Board hole lay out: Consult factory



Power contacts 8291

Contacts

TRIM TRIO Connectors also offer possibilities to use or combine power contacts with the standard size 16 signal contacts into the same housing. It offers customers to reduce the number of connectors when combining signal and high current applications into 1 connector.

The signal cavities accept the full range of TRIM TRIO size 16 contacts for applications up till 13 A.

- Power cavities will either accept:
 - Size 12 contacts for applications up till 26 A
 - Size 8 contacts for applications up till 44 A

Pin and Socket contacts are solid machined crimp snap-in and sockets for heavy duty top performance requirements

Springs on both contacts are made of spring tempered, heat-treated, beryllium copper.



Construction

Contact body : High conductive copper alloy Outer spring : Tempered, heat-treated, non plated berylium copper.

Plating

 $\frac{K = 0.4m \text{ Gold mini all over, over Nickel}}{A = 3\mu \text{ Silver all over}}$

Performance characteristics

	Contacts # 12 (Ø 2,4)	Contacts # 8 (Ø 3,6)
Current rating :	26 A	44 A
Contact resistance :	≤ 5 mΩ	≤ 5 mΩ



Power contacts 8291

Contacts # 12 (2.4 mm)



Contacts # 8 (3.6 mm)



How to order

Part number			Contact	Cable					
Pin	Socket	Contact size	diameter	Section		Insulator diameter		Locator	Extraction tooling
			mm	mm ²	AWG	mm			
82911437NA	82911436A	- # 12 -	2.4	0.5	20	4.9	M3 17	VGE10077A	51060210924
82911435NA	82911434A			0.75-1.0	18				
82911463NA	82911462A			1.5	16				
82911465NA	82911464A			2.5	14				
82911437NK	82911436K	- # 12	2.4	0.5	20	4.9	M317	VGE10077A	51060210924
82911435NK	82911434K			0.75-1.0	18				
82911463NK	82911462K			1.50	16				
82911465NK	82911464K			2.5	14				
82913601A	82913600A	# 8	3.6	1.5	16	6.5	M3 17	VGE10078A	51060210936
82913603A	82913602A			2.5	14				
82913605A	82913604A			4	12				
82913607A	82913606A			6	10				
82913609A	82913608A			10	8				

Accessories



Discrimination keys for TRIM TRIO size 16 connectors

Description

In applications where similar connectors are used next to each other, mismatching can be a reason for disturbances, system failure or even danger to operating personnel. To eliminate mismatching, all TRIM TRIO connectors can be equipped with discrimination keys, which offer unlimited possibilities for a "fool - proof" interconnection system.

When one of these discrimination keys is used, the TRIM TRIO connector 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 which involve several identical TRIM TRIO connectors.

The material used is polyamide 6.6





SMSPKE0

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



SMSPKB2

A tube, which can be fitted over a preassembled male contact in all TRIM TRIO male boardmount connectors MSO, SMS, MSG.

Accessories





SMSPKE2V1

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



SMSPKE3

A pin, Which can be inserted in the discrimination cavities of the SMS Qikmate 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.

To unlock the discrimination pin, insert the extraction tool in the discrimination cavity at the rear side of the connector. Meanwhile, the pin can be extracted manually at the mating side.