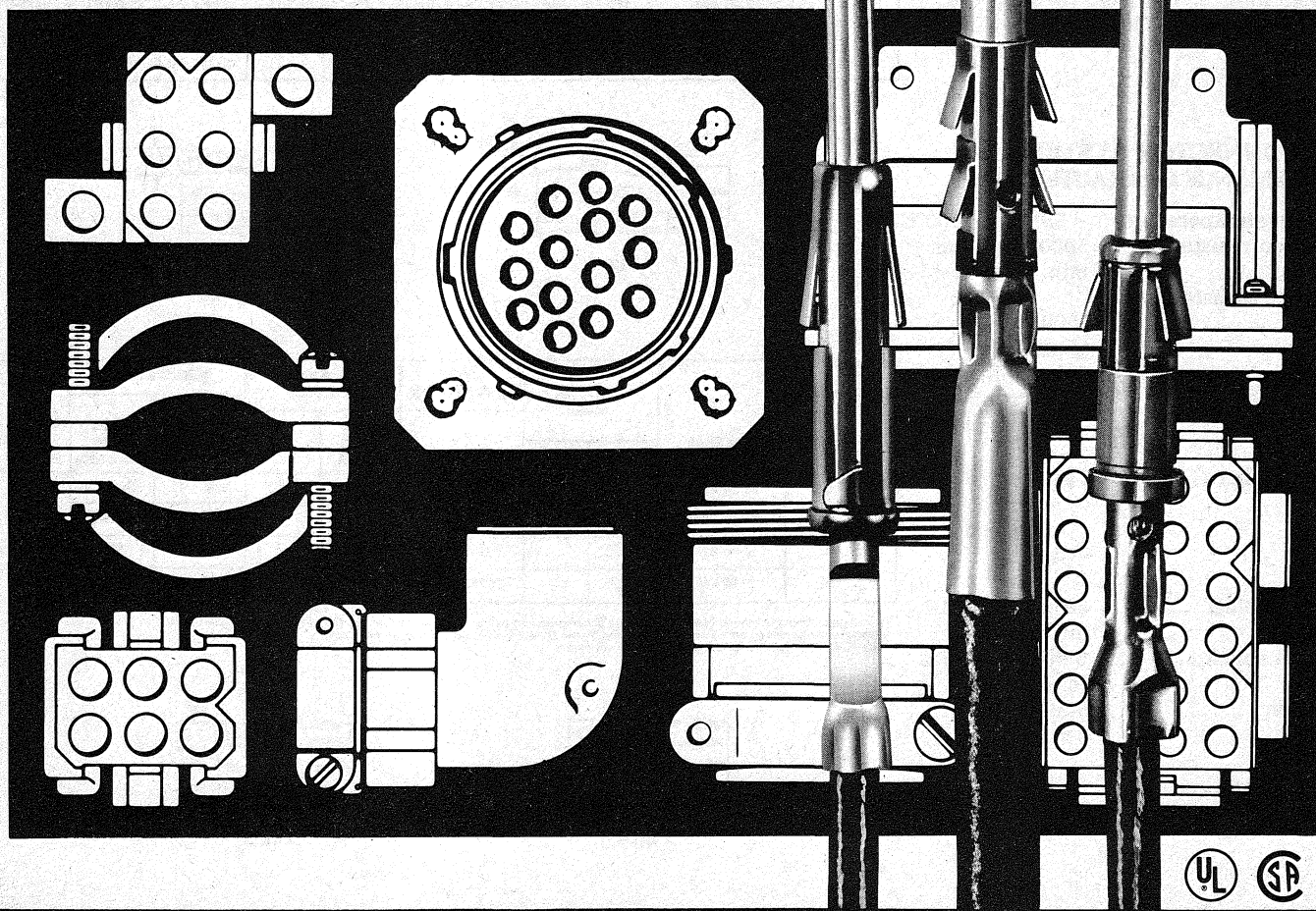


The Family of Trim Trio Contacts



Choose from any of the full line of Trim Trio contacts:

- Machined power contacts (gold-plated)
- Formed 2 piece contacts (gold or tin-plated)
- One-piece contacts (gold or tin-plated)
- Submin coax or twisted pair contacts (one-piece monocrimp or multi-piece)

Any trim Trio contact can be used in any contact position in any connector in Trim Trio the interconnection system.

No. 16 Machined Contacts, .0625 Diameter for Trim Trio Connectors

Pins and sockets are made of high conductivity copper alloy. Springs on both contacts are made of spring-temper, heat-treated, nickel-plated beryllium copper. The socket spring supplies high contact pressure to ensure low resistance contact between pin and socket. The socket contact features closed entry to prevent probe damage. Barrels on both contacts have insulation grips for vibration support. They also have a cable stop and inspection hole. Contacts are furnished with 30 μ min. gold over 75 μ min. nickel. See Fig. 4 for socket with solderless wrap post.

NOTE: Consult factory for other gold plating variations.

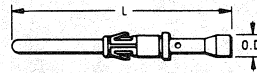


Fig. 1

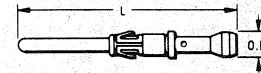


Fig. 2

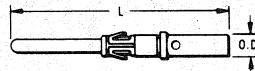


Fig. 3

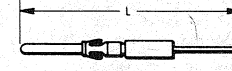


Fig. 4

pins

Pin Dia.	Wire Size† and Type	Cable Insulation Accom.		Contact Catalog Number*	Fig. No.	Dimensions in Inches			Installation Tools			Extraction Tool
		Max.	Min.			Cable Strip Length	L	O.D.	M8ND/Y8ND Die Set Cat. No.	M10S-1 Die Set Cat. No.	Stop Bushing	
.062	28 (7) Str. per MIL-W-16878 Type B or 30 solid per MIL-W-76 Type L.W.	.037	.031	RM28M-10D28	1	.187	1.02	.076	N24RT-10	S-9	SL-40	RX16D11-01
.062	26 per MIL-W-16878 or 24 per MIL-W-16878 or MIL-W-76	.062	.035									
.062	22 per MIL-W-16878 or MIL-W-5086 or 20 per MIL-W-16878	.062	.046	RM20M-13D28	2	.188	1.02	.116	N20RT-30	S-10	SL-39	
.062	22-20 per MIL-W-16878, MIL-W-76 or MIL-W-5086	.090	.060	RM20M-12D28	2	.188	1.02	.116				
.062	20-16 per MIL-W-16878, MIL-W-76 or MIL-W-5086	—	—	RM16M-23D28	3	.281	1.02	.101	N16RT-21	S3-1	SL-39	
.062	#28-30 sol Solderless Wrap			RM20M-12G-4028	4	—	1.81	.025 Sq. Post				

RACK & PANEL

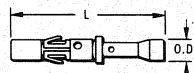


Fig. 1

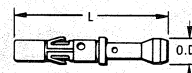


Fig. 2

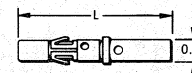


Fig. 3

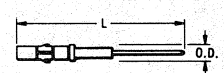


Fig. 4

sockets

Socket (Pin Dia. Accom.)	Wire Size† and Type	Cable Insulation Accom.		Contact Catalog Number*	Fig. No.	Dimensions in Inches			Installation Tools			Extraction Tool	
		Max.	Min.			Cable Strip Length	L	O.D.	M8ND/Y8ND Die Set Cat. No.	M10S-1 Die Set Cat. No.			Stop Bushing
.062	28 (7) Str. per MIL-W-16878 Type B or 30 solid per MIL-W-76 Type L.W.	.037	.031	RC28M-1D28	1	.187	.71	.076	N24RT-10	S-9	SL-40	RX16D11-01	
.062	26 per MIL-W-16878 or 24 per MIL-W-16878 or MIL-W-76	.062	.035	RC24M-9D28	1	.188	.71	.101					
.062	22 per MIL-W-16878 or MIL-W-5086 or 20 per MIL-W-16878	.062	.046	RC20M-13D28	2	.188	.71	.116	N20RT-30	S-10			
.062	22-20 per MIL-W-16878, MIL-W-76 or MIL-W-5086	.090	.060	RC20M-12D28	2	.188	.71	.116					
.062	20-16 per MIL-W-16878, MIL-W-76 or MIL-W-5086	—	—	RC16M-23D28	3	.281	.71	.101	N16RT-21	S3-1			SL-39
.062	#28-30 sol Solderless Wrap			RC20M-12G-4028	4	—	1.50		.025 Sq. Post				

†Wire types other than those noted may also be accommodated by contacts above. Consult Burndy, giving wire particulars.

*Contacts installed by the HYPRESS YD2-1 (catalog number preceded by M-) are furnished in expendable plastic carry strips. Contacts installed by the BANDOMATIC (catalog number prefixed C-) are furnished on reels.

No. 16 Formed Contacts, .0625 Diameter-Strip Fed for Trim Trio Connectors

Strip-feed No. 16HYFEN contacts, .0625 diameter, are formed of sheet, copper base alloy with 30 μ min. gold over 75 μ min. nickel or tin plated. The contact retaining spring forms a closed entry cup on the socket. Contacts accommodate No. 14 through No. 26 wire, solid or stranded. Contacts are packaged 3,000 to a reel, allowing long runs between loading on the UTM-2 automatic installation machine.

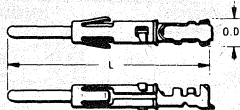
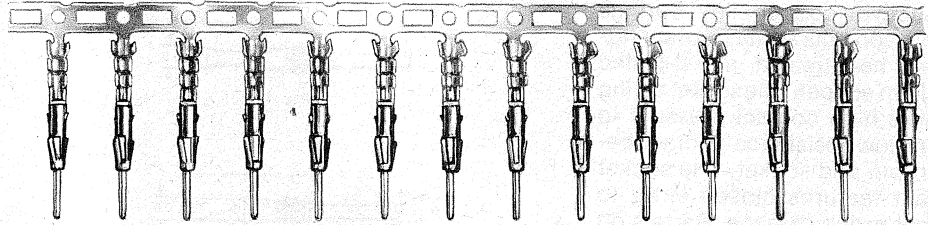


Fig. 1

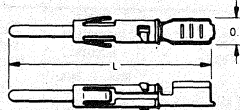


Fig. 2

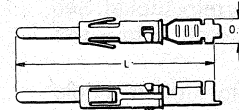


Fig. 3

pins

Fig.	Pin Dia.	Wire Size† and Type	Cable Insulation Accom.		Contact Catalog Number		Dimensions in Inches			Installation Tools		Extraction Tool
			Max.	Min.	Gold** Plated	Tin Plated	Cable Strip Length	L	O.D.	M8ND/Y8ND Die Set Cat. No.	UTM-2 Crimp Mechanism	
1	.062	26-24 AWG	.062	.035	SM24M-1S6	SM24M-1TK6	.156	1.05	.128	N24RT-11	CM11G1	RX16-D11 OR RX16D11-D1
1	.062	22-20 AWG	.082	.046	SM20M-1S6	SM20M-1TK6	.156	1.05	.139	N20RT-29	CM11G1	
2	.062	18-16 AWG	.125	—	SM16M-1S6	SM16M-1TK6	.250	1.05	.12	N16RT-24	CM11	
2	.062	14-AWG	.125	—	SM14M-1S6	SM14M-1TK6	.250	1.05	.13	N14RT-13	CM11	
3††	.062	18-16 AWG	.118	.082	SM16M-11S6	SM16M-11TK6	.183	1.05	.15	N16RT-26	CM27	

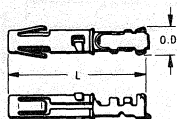


Fig. 1

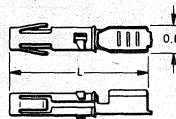


Fig. 2

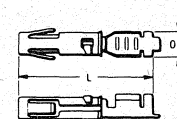


Fig. 3

sockets

Fig.	Socket (Pin Dia. Accom.)	Wire Size† and Type	Cable Insulation Accom.		Contact Catalog Number		Dimensions in Inches			Installation Tools		Extraction Tool
			Max.	Min.	Gold** Plated	Tin Plated	Cable Strip Length	L	O.D.	M8ND/Y8ND Die Set Cat. No.	UTM-2 Crimp Mechanism	
1	.062	26-24 AWG	.062	.035	SC24M-1S6	SC24M-1TK6	.156	.71	.128	N24RT-11	CM11G1	RX16-D11 OR RX16D11-D1
1	.062	22-20 AWG	.082	.046	SC20M-1S6	SC20M-1TK6	.156	.71	.139	N20RT-29	CM11G1	
2	.062	18-16 AWG	.125	—	SC16M-1S6	SC16M-1TK6	.250	.71	.12	N16RT-24	CM11	
2	.062	14 AWG	.125	—	SC14M-1S6	SC14M-1TK6	.250	.71	.13	N14RT-13	CM11	
3††	.062	18-16 AWG	.118	.083	SC16M-11S6	SC16M-11TK6	.183	.71	.15	N16RT-26	CM27	

†Wire types other than those listed may also be accommodated by contacts above. Consult Burndy, giving wire particulars.

††Contacts for use in Qikmate only.

*Contacts are furnished on a strip to be installed by the UTM-2 automatic installation machines.

**NOTE: Consult factory for other gold plating variations.

Contact kits are available for all coaxial cables shown. The inner pin and outer female body and components, RCDX60-2, RMD26L-1, RCDXB055-1 and YOC-074, are packaged in KIT RCDXK-1D28.

The inner socket and outer male body and components, RMDX60-2, RFD26L1, RMDXB055-3, and YOC-074, are packaged in KIT RMDXK-10D28.

The contacts for subminiature coaxial cable, shielded cable, and twisted pair wires 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.

Tin-plated, corrosion-resistant outer ferrules hold the outer braid to the outer contacts and act as an insulation support to ensure against bending and vibration stresses. The inner and the outer conductor are crimped individually, thereby enabling inspection of both critical crimp points.

Performance Characteristics

Operating voltage between inner and outer

contact: 230 volts DC sea-level working voltage

Test potential between inner and outer

contact: 750 volts AC 60 cycles for one minute

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

Contact retention in panel: 15 pounds minimum

Contact voltage drop (maximum): 25 millivolts

at 1 ampere for inner and outer contacts

Multi-Piece Subminiature Coaxial Contacts for Trim Trio Connectors

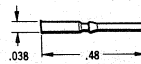


Fig. 1

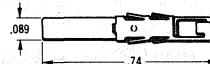


Fig. 2

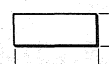


Fig. 3

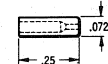


Fig. 4

Sockets

*Cable	Contact for Inner Conductor				Contact for Outer Braid						Extraction Tool
	Pin Catalog Number	Fig. No.	Crimp Tool M10S-1		Outer Female Body		HYRING		Crimp Tool M10S-1		
			Die Set	Stop Bushing	Catalog Number	Fig. No.	Catalog Number	Fig. No.	Die Set	Stop Bushing	
RG161/U RG179A/U RG187/U RG179B/U	RMD26L-1D28	1	S-23D2	SL-46-D2	RCDX60-2D28	2	YOC-074	3	S-22-1	SL-47-1	RX16D11-D1
RG174/U RG188/U Amphenol 21-598	RMD26L-1D28		S-26D2		RCDX60-2D28		YOC-074				
RG178A/U RG196/U	RMD26L-1D28		S-23D2		RCDX60-2D28		YOC-074 RCDXB055-1				

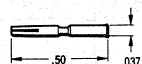


Fig. 1

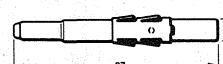


Fig. 2

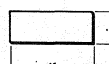


Fig. 3

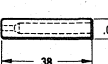


Fig. 4

Pins

*Cable	Contact for Inner Conductor				Contact for Outer Braid						Extraction Tool
	Socket Catalog Number	Fig. No.	Crimp Tool M10S-1		Outer MALE Body		HYRING		Crimp Tool M10S-1		
			Die Set	Stop Bushing	Catalog Number	Fig. No.	Catalog Number	Fig. No.	Die Set	Stop Bushing	
RG161/U RG179A/U RG187/U RG179B/U	RFD26L-1D28	1	S-23D2	SL-46-D2	RMDX60-2D28	2	YOC-074	3	S-22-1	SL-47-1	RX16D11-D1
RG174/U RG188/U Amphenol 21-598	RFD26L-1D28		S-26D2		RMDX60-2D28		YOC-074				
RG178A/U RG196/U	RFD26L-1D28		S-23D2		RMDX60-2D28		YOC-074 RMDXB055-3		4		

*Wire types other than those listed may also be accommodated by these contacts. Consult your local Burndy representative, giving particulars.

No. 16 Strip Formed One-Piece Power Contacts

pins

Low-cost one-piece contacts are formed of brass and available with tin or gold plate finishes. Contacts accommodate #16 stranded through

#26 solid or stranded. They are supplied 3,000 to a reel and installed with the Burndy UTM-2 installation machine.

Wire Range	Insulation Range	Catalog Number	Plating	Installation Tools		Extraction Tools
				M8ND/Y8ND Die Set	UTM-2 Crimp Mechanism	
#24-#26 Sol & STR.	.038"-.062"	SM24M 6S6 SM24M 6TK6	.000030 min. gold over .000075 min. nickel Tin Plate	N24RT-11	CM11G1	RX16-D11 OR RX16D11-D1
#20-#22 Sol & STR.	.046"-.082"	SM20M 6S6 SM20M 6TK6	.000030 min. gold over .000075 min. nickel Tin Plate	N20RT-29	CM11G1	
#16-#18 STR.	—	SM16M 6S6 SM16M 6TK6	.000030 min. gold over .000075 min. nickel Tin Plate	N16RT-24	CM11	
#16-#18 STR.	.082"-.118"	SM16M-16S6 SM16M 16TK6	.000030 min. gold over .000075 min. nickel Tin Plate	N16RT-26	CM27	

NOTE: Shaded area refers to Fig. 3. For use in Qikmate only.

sockets

Wire Range	Insulation Range	Catalog Number	Plating	Installation Tools		Extraction Tools
				M8ND/Y8ND Die Set	UTM-2 Crimp Mechanism	
#24-#26 Sol & STR.	.035"-.062"	SC24M 62S6 SC24M 62TK6	.000030 min. gold over .000075 min. nickel Tin Plate	N24RT-11	CM11G1	RX16-D11 OR RX16D11-D1
#20-#22 Sol & STR.	.046"-.082"	SC20M 62S6 SC20M 62TK6	.000030 min. gold over .000075 min. nickel Tin Plate	N20RT-29	CM11G1	
#16-#18 STR.	—	SC16M 62S6 SC16M 62TK6	.000030 min. gold over .000075 min. nickel Tin Plate	N16RT-24	CM11	

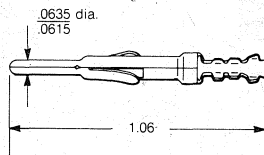
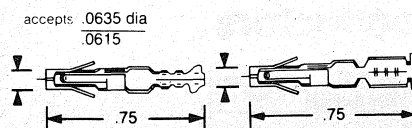
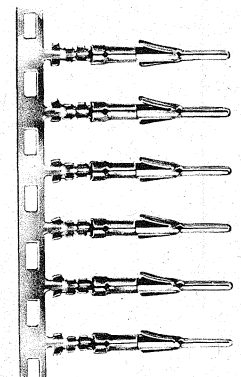
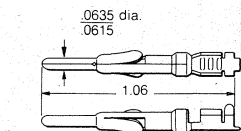
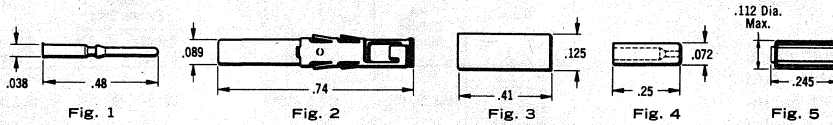


Fig. 3

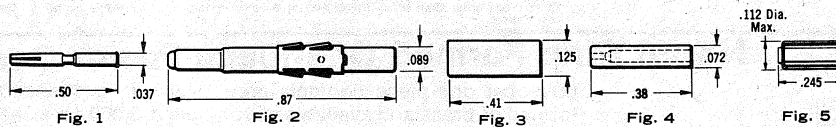


Multi-Piece Twisted Pair Contacts for Trim Trio Connectors



Sockets

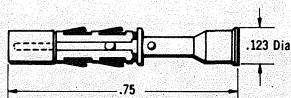
Cable	Contact for Inner Conductor				Contact for Outer Braid						Extraction Tool
	Pin Catalog Number	Fig No.	Crimp Tool		Outer Female Body		HYRING		Crimp Tool		
			M10S-1				Catalog Number	Fig. No.	Catalog Number	Fig. No.	
2#24 sol or str. 2#26 str. twisted pair	RMD26L-1D28	1	S26D2	SL46-D2	RCDX60-2D28	2	YOC-074	3	S22-1	SL47-1	RX16D11-D
							RCDXB055-1	4			
							YORX090	5			
2#24 twisted pair 7/.008 stranded MIL-W-76 or MIL-W-16878 type B	RMD26L-1D28	1	S26D2	SL46-D2	RCDX60-2D28	2	YOC-074	3	S22-1	SL47-1	
							RCDXB055-2	4			
							YORX-090	5			
#28 twisted pair per MIL-W-81822/3	RMD26L-1D28	1	S26D2	SL46-D2	RCDX60-2D28	2	YOC-074	3	S22-1	SL47-1	
							RCDXB055-1	4			
							YORX090	5			



Pins

Cable	Contact for Inner Conductor				Contact for Outer Braid						Extraction Tool
	Socket Catalog Number	Fig No.	Crimp Tool		Outer MALE Body		HYRING		Crimp Tool		
			M10S-1		Catalog Number	Fig. No.	Catalog Number	Fig. No.	M10S-1		
Die Set	Stop Bushing	Die Set	Stop Bushing								
2#24 sol or str. 2#26 str. twisted pair	RFD26L-1D28	1	S26D2	SL46-D2	RMDX60-2D28	2	YOC-074	3	S22-1	SL47-1	
							RMDXB055-3	4			
							YORX090	5			
2#24 twisted pair 7/.008 stranded MIL-W-76 or MIL-W-16878 type B	RFD26L-1D28	1	S26D2	SL46-D2	RMDX60-2D28	2	YOC-074	3	S22-1	SL47-1	
							RMDXB055-4	4			
							YORX-090	5			
#28 twisted pair per MIL-W-81822/3	RFD26L-1D28	1	S26D2	SL46-D2	RMDX60-2D28	2	YOC-074	3	S22-1	SL47-1	
							RMDXB055-3	4			
							YORX090	5			

Male Contact for Connections of Unshielded Conductors to Shielded Conductors



Pin Catalog Number	Wire Accom.	Crimp Tool M10S-1		Extraction Tool
		Die Set	Stop Bushing	
RM24L-2D28	One #24 solid or one #26 stranded	S-42	SL-49	RX16D11-D1

MONOCRIMP™

One-Piece Contacts for Sub-Min Coax or Twisted Pairs

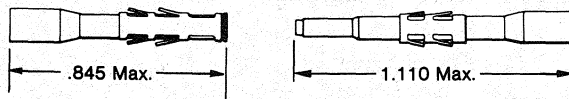
The MONOCRIMP One-Piece Contacts for Subminiature Coaxial and Twisted Pair applications offer high reliability plus the economic advantage of a 95 percent reduction in installation time over conventional assembly methods currently in use. This economy is achieved by simultaneously crimping of both the inner and outer conductor.

Installation of the MONOCRIMP Contacts is accomplished by simply inserting a properly pre-stripped cable (coax or twisted pair) and making a single crimp using an M10S hand tool with the recommended die-set and stop

bushing. Installation time is approximately five seconds.

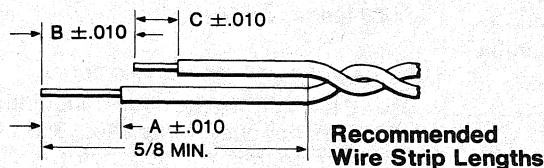
The MONOCRIMP Contacts are accommodated by all connector types in the Trim Trio Interconnection System manufactured for high-quality performance. The pins and sockets are fabricated of high-conductivity copper alloy, electro-plated gold over silver or nickel. The contact springs are tempered heat-treated nickel-plated beryllium copper. Heavy solder plating surrounds the inner ferrules on the back end of the contact, which assures the fusing of the braid to the outer body during crimping.

MONOCRIMP™ Twisted Pair

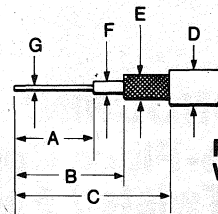
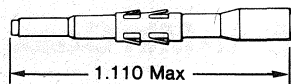
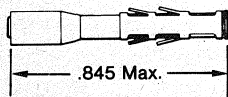


Outer Coax Contact Ass'y		Twisted Pair Inner Conductor Awg. Size	Max. Dia. Outer Jacket (Single Wire)	Cable Strip Lengths			Crimp Tool M10S-1		EXTRACTION TOOL
Male	Female			A	B	C	Die Set	Stop Bush	
RMDX60-19D28	RCDX60-19D28	#26 19/.004	.049	.185	.240	.160	M10SG8*		RX16D11-D1
RMDX60-31D28	RCDX60-31D28	#26 7/.0063	.028	.185	.240	.160	S-80	SL-105	
RMDX60-19D28	RCDX60-19D28	#24 7/.008	.049	.185	.240	.160	M10SG8*		
RMDX60-19D28	RCDX60-19D28	#24 19/.005	.057	.185	.240	.160	M10SG8*		

*Consists of die set, stop bushing and M10S-1 Tool



MONOCRIMP™ Submin Coax



Recommended Wire Strip Lengths

Coax Contact Ass'y		Inner Conductor AWG Size	Cable Jacket	Max. Dia. Outer ("D" Dia.)	Dielectric Dia. Size ("F" Dia.)	Inner Conductor Dia. ("G" Dia.)	Outer Braid ("E" Dia.)	Cable Strip Length			Crimp Tool M10S-1		EXTRACTION TOOL
Male	Female							A	B	C	Die Set	Stop Bush	
RMDX60-40 D28	RCDX60-16 D28	30	—	.104	.067	7/.004 .012 dia.	.083	.250	.300	.400	S-80	SL-105	RX16D11-D1
RMDX60-40 D28	RCDX60-16 D28	30	—	.090	.048	7/.004 .012 dia.	.064	.250	.300	.400	S-87	SL-105	
RMDX60-32 D28	RCDX60-32 D28	28	—	.114	.075	7/.005 .015 dia.	.090	.250	.300	.460	S-80	SL-105	
RMDX60-24 D28*	RCDX60-24 D28*	26	—	.070	.038	7/.0063 .019 dia.	.054	.250	.300	.400	S-82	SL-105	
RMDX60-32 D28	RCDX60-32 D28	26	RG174/μ	.105	.060	7/.0063 .019 dia.	.088	.250	.300	.400	S-80	SL-105	
RMDX60-26 D28	RCDX60-26 D28	26	—	.120	.077	.016 dia. Solid	.096	.250	.300	.400	S-82	SL-105	
RMDX60-36 D28	RCDX60-36 D28	26	RG188A/μ	.110	.060	7/.0067 .020 dia.	.078	.250	.300	.460	S-80	SL-105	
RMDX60-36 D28	RCDX60-36 D28	26	RG316/μ	.107	.060	7/.0067 .020 dia.	.078	.250	.300	.460	S-80	SL-105	
RMDX60-18 D28*	RCDX60-18 D28*	26	—	.103	.060	7/.0067 .021 dia.	.078	.250	.300	.400	M10SG8 ** Ass'y Tool		
RMDX60-18 D28*	RCDX60-18 D28*	26	—	.092	.050	19/.005 .025 dia.	.067	.250	.300	.400	M10SG8 ** Ass'y Tool		

** Consists of die Set.
Stop Bushing &
M10S-1 Tool

*Consult factory for availability

Performance Characteristics

Operating Temperature in mated condition —55°C to +125°C / —67°F to +257°F

Contact Retention in Connector Body

Contact retention after 5 cycles of insertion and extraction 15 lbs. Minimum

Contact Voltage Drop

When measured on mated contacts from the wire or braid 1/4" beyond on the hying, one (1) ampere current ..30 MV. Maximum

Contact Withdrawal Forces

Inner Socket using pin (.023" Dia.) 1/2 oz. Minimum
Outer Socket using pin (.073" Dia.) 1/2 oz. Minimum

Dielectric Withstanding Voltage

Applied for 1 minute between inner and outer contacts 450 Volts AC RMS

Insulation Resistance of Inner Bushings

Per MIL-STD-202B Method 302

Test Cond. B. 1,000 Megohms Min.

Durability 250 cycles mating and unmating of assembled pins and sockets

..... Meets Voltage Drop requirements

Crimp Requirements

3 to 10 lbs. min. on the inner conductor depending on type of conductor wire used. 8 to 12 lbs. Minimum on the braid depending upon type of coax wire used.

Salt Spray 48 Hours Contact show no evidence of corrosion and pass withdrawal requirements.

Shock

One shock of 50g. Intensity in each of three mutually perpendicular directions. Contact shows no evidence of damage.

Consult factory for additional contact/cable accommodations.

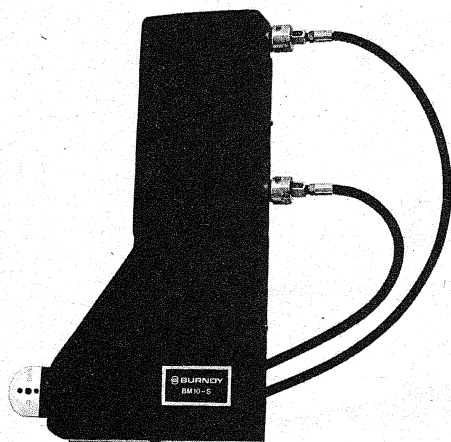
Burndy Trim Trio Installation Tooling

The Trim Trio system not only offers design versatility in connectors, but production versatility in tooling as well. Choose from a broad line of tooling from simple hand tools to

automated systems. All Trim Trio tooling is specifically designed for this system to make reliable, trouble-free connections.

HYPRESS BM 10S

Bench-mounted version of M10S-1 hand tool. Pneumatic, airline pressure 85-100 psi.



Bandomatic AM4D1

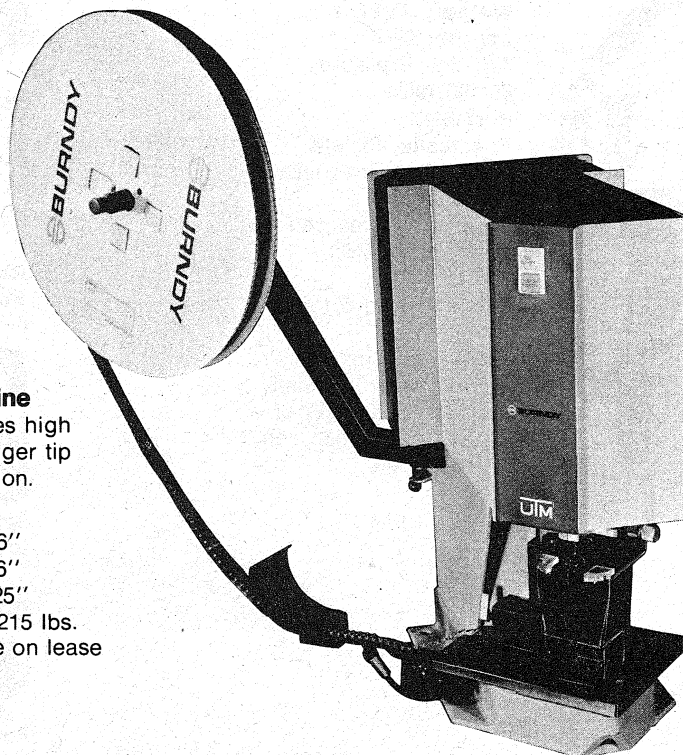
Crimps Trim Trio machined power contacts at speeds up to 3,000/hour depending on operator. Features small wire entry area for operator protection and no external moving parts. Air and electric powered.

Depth: 34"
Width: 17"
Height: 16½";
27½" max. tilted
Weight: 115 lbs.

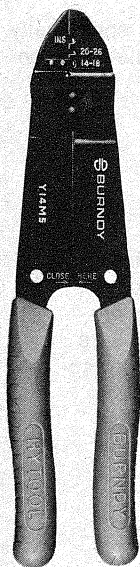
UTM-2 Universal Terminating Machine

For strip formed power contacts. Features high reliability crimps, low noise level and finger tip dial selector for fast easy crimp selection.

Depth: 16"
Width: 16"
Height: 25"
Weight: 215 lbs.
Available on lease

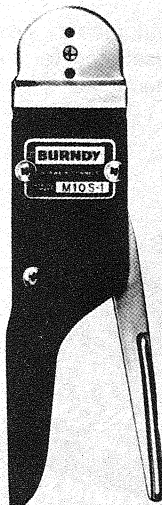


Burndy Trim Trio Installation Tooling



HYTOOL Y14MS

Weight: 10 1/2 oz.
Length: 9 3/8"
 Plier type hand tool for loose piece formed contacts.



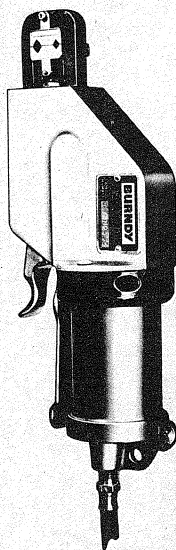
HYTOOL M10S-1 (ratchet controlled)

Height: 9"
Width: 2"
Weight: 1.6 lbs.
 Four-indent die sets removable to permit installation of a variety of contact sizes. Conforms to requirements of MIL-T-22520



HYTOOL M8ND (ratchet controlled)

Weight: 1 3/4 lbs.
Length: 10 3/4"
 Removable dies can also be used with Y8ND HYPRESS



HYPRESS Y8ND

Weight: 2 3/4 lbs.
Length: 9 3/4"
 Air Line Pressure 85-100 psi
 Portable
 Pneumatic; installs loose piece machined contacts
 Removable dies can be used with M8ND, HYTOOL
 Supplied with 6 foot hose
 Built-in pneumatic cycling control system insures completion of stroke before dies can be reopened

Extraction Tools

RX20-25 V2 Trim Trio Contacts



Stainless Steel Extraction Tip

Length: 4.1"

Spring loaded steel outer sleeve depresses contact locking spring. Inner plunger pushes out contact.

RXK20-25 Trim Trio Contacts Extraction Tool Tip RXT20-4P3 Trim Trio Extraction Tool Handle

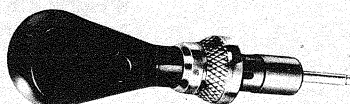


Stainless Steel Extraction Tip

Length: 5.68"

Fixed outer sleeve depresses contact locking spring. With tool still in contact hole, use hand to pull out contact.

RX16 D11-D1



For use with all Trim Trio contacts. Must be used with Qikmate rectangular connectors.