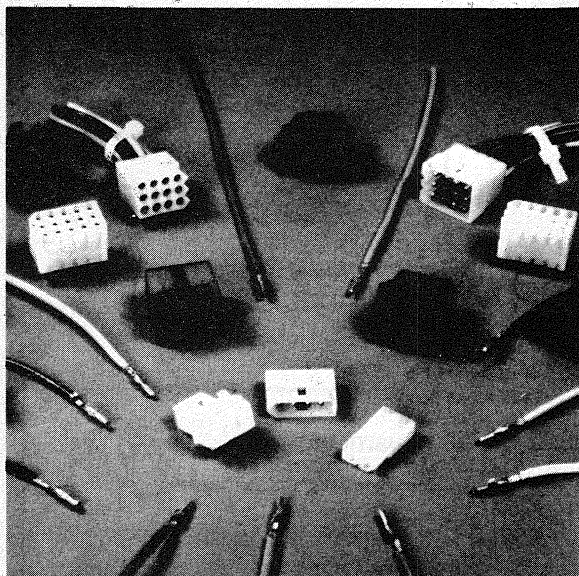
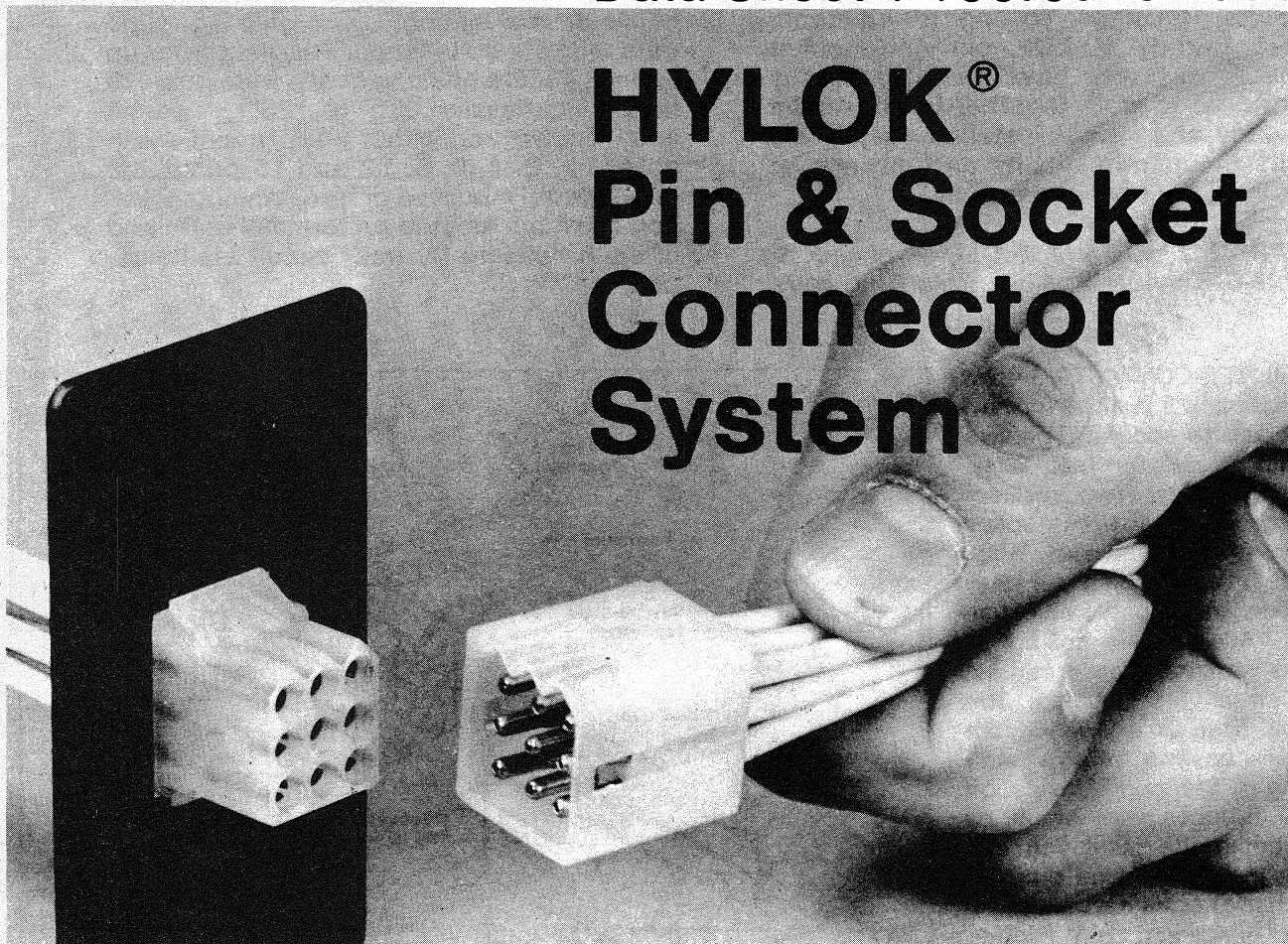


TERMAC

PRODUCT SPECIFICATIONS

Data Sheet T-100. June 1980

HYLOK[®] Pin & Socket Connector System



- Housings, contacts and tooling are totally matched and system engineered for low cost and high reliability.
- Available for both free-hanging and panelmount applications in 2, 3, 4, 6, 9, 12 and 15 circuit sizes.
- Smooth-nose pins and bell-mouth sockets for easy, positive mating.
- Matched application tooling for every production need.
- Recognized under the Component Program of Underwriters' Laboratories, Inc. and Canadian Standards Association.

HYLOK CONNECTORS: system engineered for maximum efficiency and lowest installed costs.



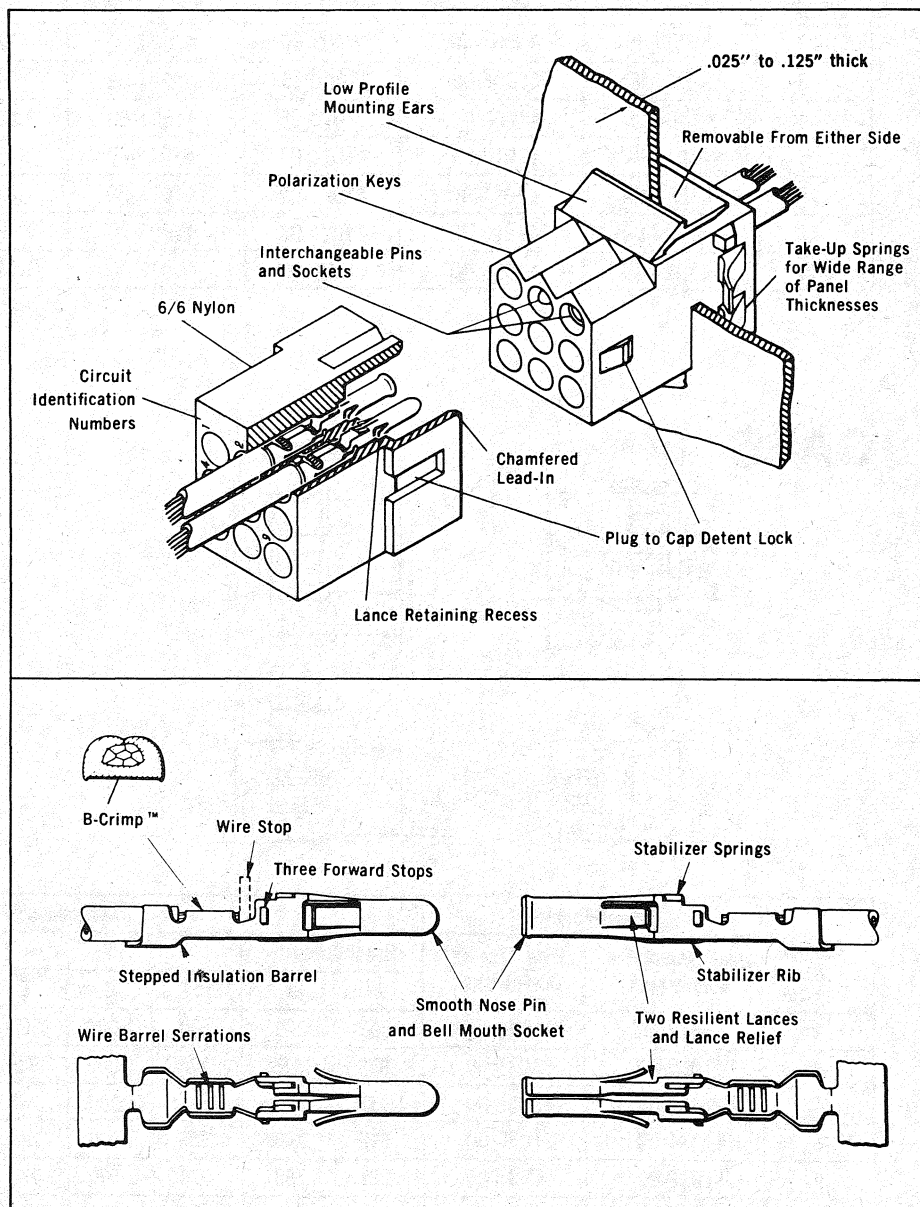
Contacts. Housings. Tooling. All elements of the Burndy HYLOK pin and socket connector system have been integrally engineered to work together for maximum efficiency and lowest installed costs. This results in uniform quality and savings at virtually every step of assembly.

POLARIZED HOUSINGS:* Made of tough, flexible 6/6 nylon. Positive Polarizing keys

eliminate mis-mating. Low profile mounting ears simplify installation. Resilient take-up springs secure housing over a wide range of panel thicknesses (.025" to .125") ... permit easy removal from either side of panel. Available in 2, 3, 4, 6, 9, 12 and 15 positions; either panel mounted or free hanging. Position numbers located on terminal entry end of each housing for easy circuit identification.

STABILIZED CONTACTS: 3-point stabilizer and 3 positive forward stops assure accurate, precise contact "float" for fast, easy, smooth mating. Two resilient locking lances with a relief space or "window" around each lance permit free movement for easy insertion and trouble-free extraction. Accurately positioned "stops" assure proper contact location in the housing. The smooth-nose pin and bell-mouth socket provide easy, sure mating. Stepped insulation barrel reduces wire strain by positioning the insulation diameter in line with the contact. Wire barrel serrations break up oxide films and give added strength to the crimp. Insertion and extraction tools are available to easily install or remove pins and sockets.

MATCHED INSTALLATION TOOLING: The rugged and reliable Burndy UTM (Semi-automatic bench press) and crimp mechanism utilize the Burndy B-crimp, and a wire stop assures consistently accurate wire positioning. For high-volume production, ask about the latest TERMAC innovations in automated machinery. TERMAC maintains a trained staff of field service engineers to provide full field service.

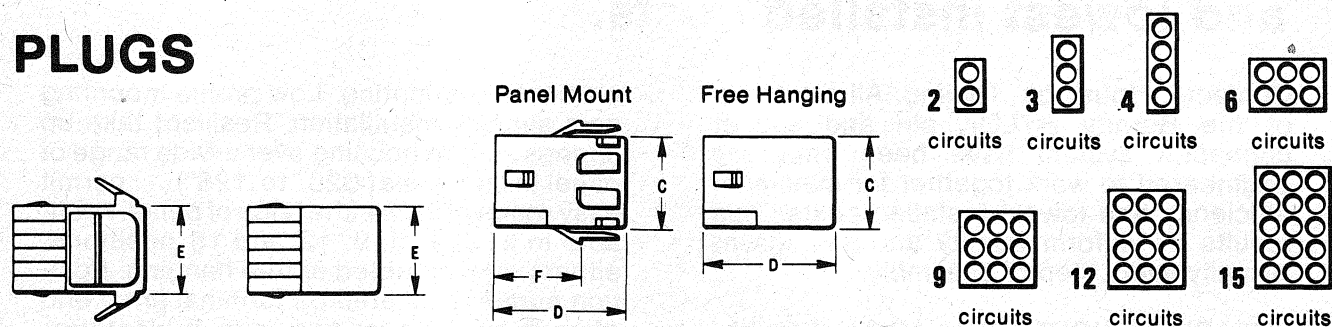


RACK & PANEL

* Available in standard NEMA colors.

HYLOK Pin & Socket Connectors: Specifications and ordering data

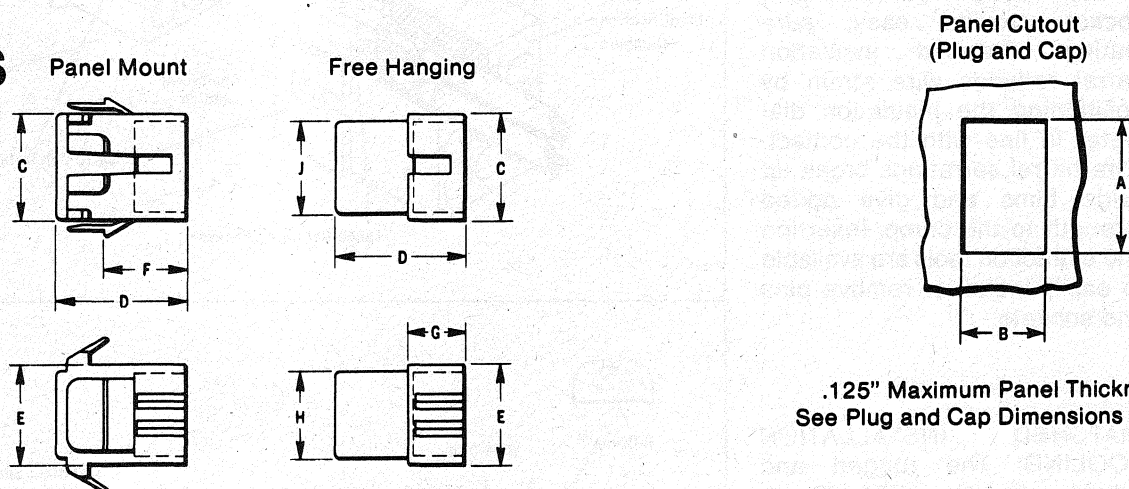
PLUGS



Number of Circuits	Catalog Number				Dimensions in Inches					
	Panel Mountable Detent Lock	Panel Mountable w/o Detent Lock	Free Hanging Detent Lock	Free Hanging w/o Detent Lock	Panel Cutout*		Housing			
					A	B	C	D	E	F
2	41000-00	41001-00	41002-00	41003-00	.725	.312	.536	1.008	.250	.630
3	41004-00	41005-00	41006-00	41007-00	.840	.312	.670	1.008	.236	.630
4	41008-00	41009-00	41010-00	41011-00	1.038	.312	.863	1.008	.236	.630
6	41012-00	41013-00	41014-00	41015-00	.600	.725	.434	1.008	.632	.630
9	41016-00	41017-00	41018-00	41019-00	.828	.725	.666	1.008	.627	.630
12	41020-00	41021-00	41022-00	41023-00	1.050	.725	.870	1.008	.632	.630
15	41024-00	41025-00	41026-00	41027-00	1.240	.725	1.066	1.008	.632	.630

* $\pm .005$ "

CAPS



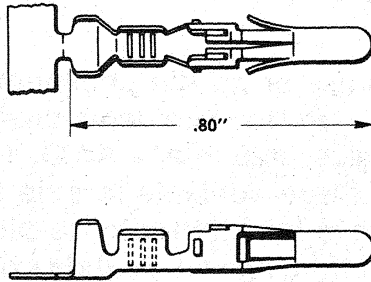
.125" Maximum Panel Thickness
See Plug and Cap Dimensions Tables

Number of Circuits	Catalog Number		Dimensions in Inches								
	Panel Mountable Detent Lock	Free Hanging Detent Lock	Panel Cutout*		Housing						
			A	B	C	D	E	F	G	H	J
2	41028-00	41029-00	.800	.375	.639	1.000	.352	.600	.420	.260	.639
3	41030-00	41031-00	.933	.375	.773	1.000	.338	.600	.420	.248	.773
4	41032-00	41033-00	1.131	.375	.971	1.000	.338	.600	.420	.250	.971
6	41034-00	41035-00	.695	.760	.536	1.000	.734	.600	.420	.642	.448
9	41036-00	41037-00	.937	.760	.770	1.000	.734	.600	.420	.638	.674
12	41038-00	41039-00	1.155	.760	.970	1.000	.734	.600	.420	.642	.882
15	41040-00	41041-00	1.343	.760	1.169	1.000	.734	.600	.420	.642	1.077

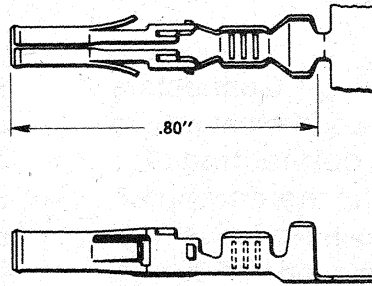
* $\pm .005$ "

CONTACTS .093" SIZE

Pin Contact

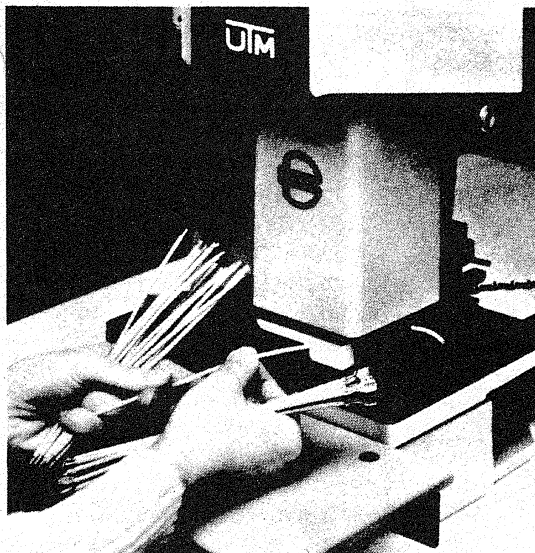


Socket Contact



Reeled Contact Catalog Number		Wire Accommodation		Material and Finish	Crimp Mechanism for UTM Machine	Hand Tool
Pin	Socket	AWG	Insulation Diameter			
21058-02	21061-02	24-20	.070 .040	.010 Pretinned Brass	CM06G1	Y14MTR
21059-02	21062-02	20-16	.130 .090		CM06	—
21060-02	21063-02	20-14	.160 .065		CM06G2	Y14MTR

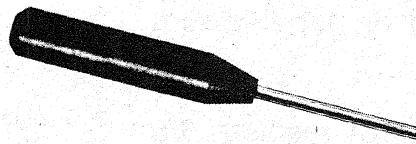
TOOLING



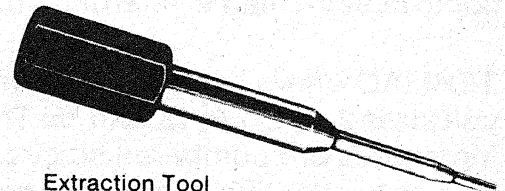
UTM-OA

Universal Terminating Machine— Operator Assist

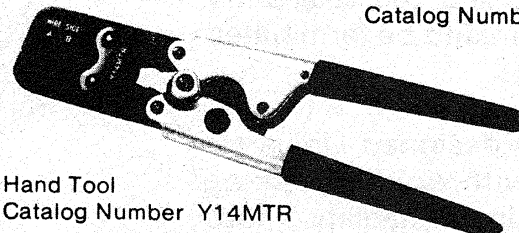
The UTM-OA semi-automatic terminator features an "operator-assist" safety shield that increases production while protecting the operator's hand from the crimping mechanism. Reduces operator training time, reject rates and costs. This new machine has a sturdy, welded-steel frame, yet weighs only 255 pounds. Overall height of 25" permits flexibility in selection of production-line placement. Accommodates # 14 to #26 AWG wire sizes. The machine has a dependable, long-life roller clutch and a rugged, five-ton steel press that assures maximum deflection under load. Meets all OSHA requirements.



Insertion Tool (for small gauge wires)
Catalog Number RTM20D29



Extraction Tool
Catalog Number RX14D5



Hand Tool
Catalog Number Y14MTR

UNIVERSAL HYLOK CONNECTORS

TERMAC's Universal HYLOK Connectors offer a dependable and economical way to combine multiple-lead connections for worldwide application in the computer, office equipment and appliance industries. These connectors are designed for 600-volt applications and meet VDE requirements for 380-volt applications.

Universal HYLOK housings are totally polarized for accurate plug-to-cap mating, and the pins and sockets can be interchanged in the plug or the cap for a variety of keying combinations. The plug and cap feature positive-locking housings so the connectors cannot be accidentally disconnected in free-hanging or panel-mount applications.

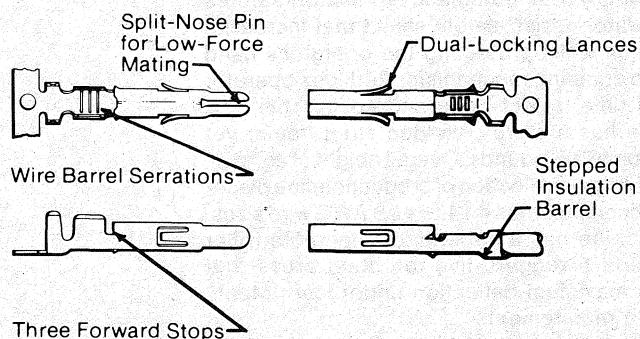
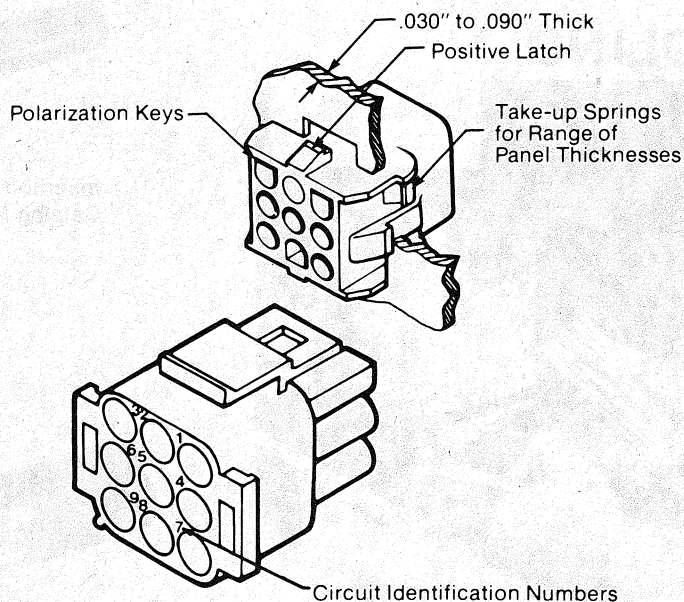
The housings are made of resilient 6/6 nylon and are available in 94V-2 natural color. Universal HYLOK housings also come in 94V-0 flame-retardant material.

TERMAC offers these connectors in circuit sizes 2, 3, 4, 6, 9, 12 and 15. The housing entries are numbered so circuits can be easily identified, and the rear-entry cavities allow two wires to be terminated with a single contact.

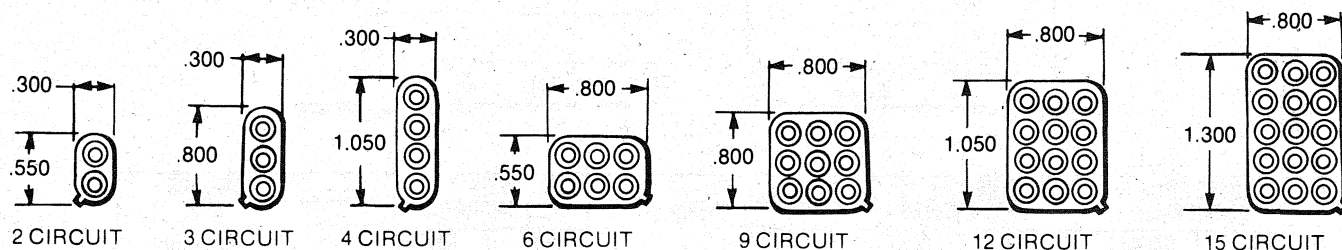
TERMAC engineers designed Universal HYLOK contacts with double-locking lances to ensure maximum stability. These contacts can be manually installed in the housings and require only one tool (Burndy's #86000) to remove both pins and sockets. Because the installed contacts are completely enclosed in the housing, they eliminate the possibility of shock yet allow either half to have hot leads.

Pre-tin brass or pre-tin phosphor bronze contacts, rated to 15 amperes, are available for wire sizes #20 to #14 AWG. TERMAC supplies these contacts in strip form for automatic termination or loose-piece form for hand crimping with Burndy's hand tool #Y14MTR.

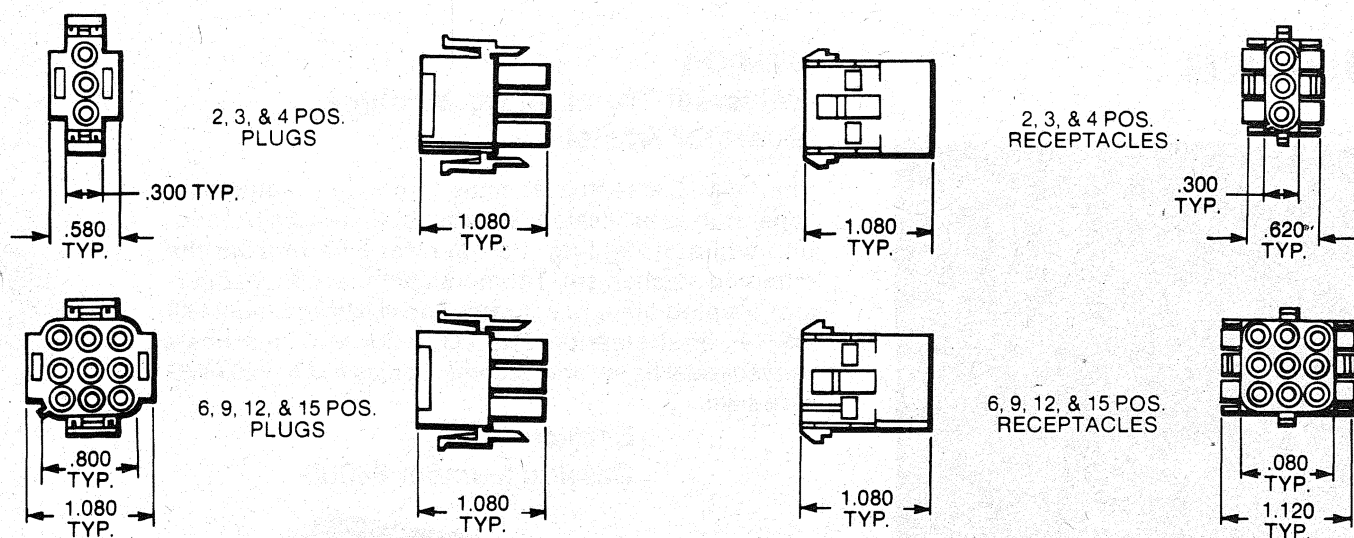
TERMAC's line of installation machinery, including the UTM, UTM-OA and the UTM-AT, provides high-volume production and low installed costs, making Universal HYLOK a complete, low-cost connector system.



UNIVERSAL HYLOK Pin & Socket Connectors: Specifications and ordering data



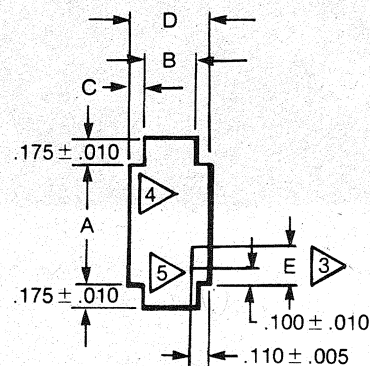
CIRCUIT CONFIGURATIONS. DIMENSIONS SHOWN DO NOT INCLUDE LOCKING LATCHES AND MOUNTING FEATURES.



RACK & PANEL

HOUSING PART NUMBERS				
NO. OF CIRCUITS	PLUG		RECEPTACLE	
	94V-2 NYLON	94V-0 NYLON	94V-2 NYLON	94V-0 NYLON
2	UHP 201	UHP 200	UHR 201	UHR 200
3	UHP 301	UHP 300	UHR 301	UHR 300
4	UHP 401	UHP 400	UHR 401	UHR 400
6	UHP 601	UHP 600	UHR 601	UHR 600
9	UHP 901	UHP 900	UHR 901	UHR 900
12	UHP 1201	UHP 1200	UHR 1201	UHR 1200
15	UHP 1501	UHP 1500	UHR 1501	UHR 1500

RECEPTACLE HOUSING PANEL CUTOUT					
NO. OF CIRCUITS	A ± .005	B ± .010	C ± .010	D ± .005	E ± .010
2	.565	.340	.095	.530	.250
3	.815	.340	.095	.530	.250
4	1.065	.340	.095	.530	.250
6	.565	.480	.275	1.030	.250
9	.815	.480	.275	1.030	.250
12	1.065	.480	.275	1.030	.350
15	1.315	.480	.275	1.030	.350

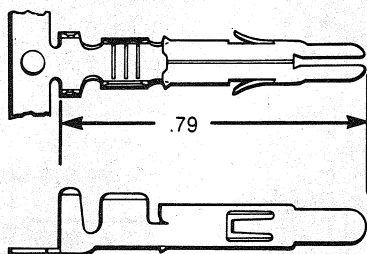


NOTES:

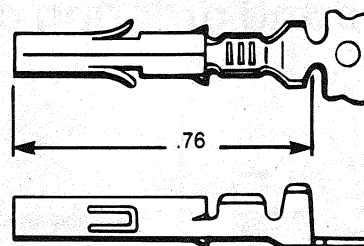
- .030-.090 PANEL THICKNESS.
- THE RECEPTACLE MUST ENTER CUTOUT IN SAME DIRECTION AS THE PUNCH.
- POLARIZATION TAB OPTIONAL.
- LOCATION OF #1 CIRCUIT WHEN POLARIZING 6, 9, 12, AND 15 POSITION RECEPTACLES.
- LOCATION OF #1 CIRCUIT WHEN POLARIZING 2, 3, AND 4 POSITION RECEPTACLES.

CONTACTS

Pin Contact

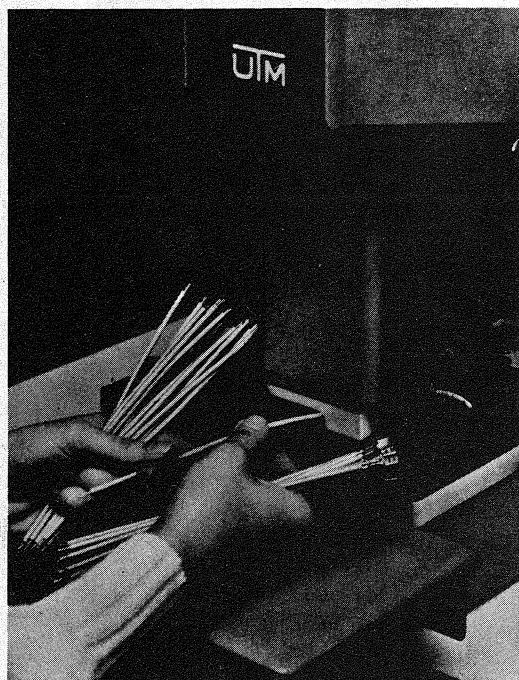


Socket Contact



LOOSE PIECE PART NUMBER		REELED PART NUMBER		MATERIAL .012 THICK	FINISH	WIRE ACCOMMODATION		HAND TOOL	IMA FOR UTM MACHINE
PIN	SOCKET	PIN	SOCKET			AWG	INS. DIA.		
UHM 2210	UHC 1210	UHM 2200	UHC 1200	BRASS	PRE-TIN	20-14	.130 MAX.	Y14MTR	91600-1-035
UHM 2211	UHC 1211	UHM 2201	UHC 1201	PHOS. BRONZE					

TOOLING



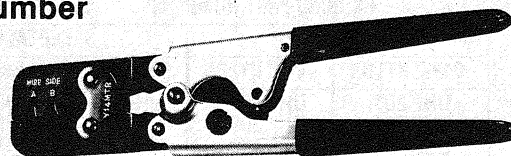
UTM-OA Universal Terminating Machine Operator Assist

The UTM-OA semi-automatic terminator features an "operator-assist" safety shield that increases production while protecting the operator's hand from the crimping mechanism. This new machine reduces operator training time, reject rates and costs and meets all OSHA requirements. The UTM-OA machine has a welded-steel frame and accommodates #14 to #26 AWG wire sizes.

Extraction Tool Catalog Number 86000

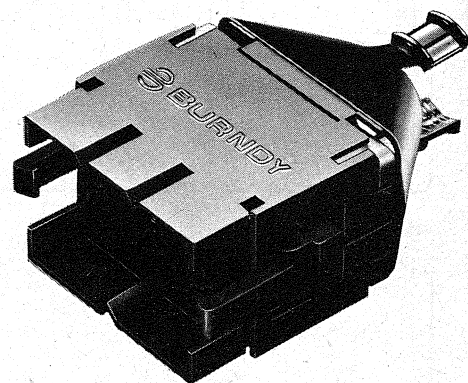
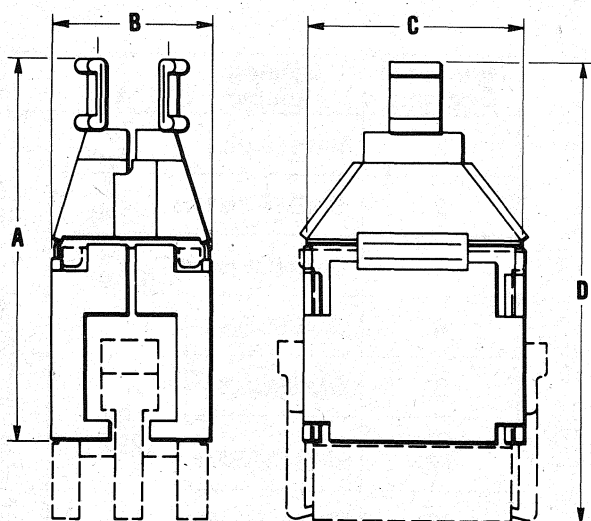
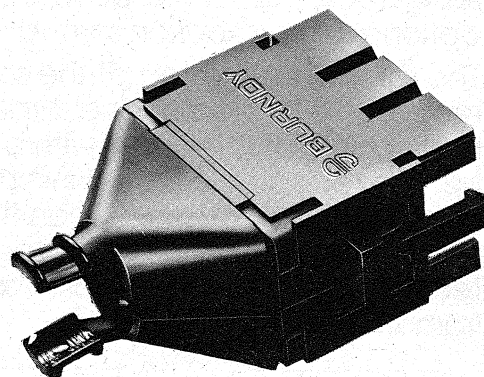


Hand Tool Catalog Number Y14MTR



STRAIN RELIEF HOODS

Strain relief hoods are available for all standard plugs. The hoods consist of identical halves that snap into position on the plug and are secured in place with a cable tie drawn tightly around the cable entry collar. Catalog numbers designate a complete hood (2 halves). The cable tie is not included.



RACK & PANEL

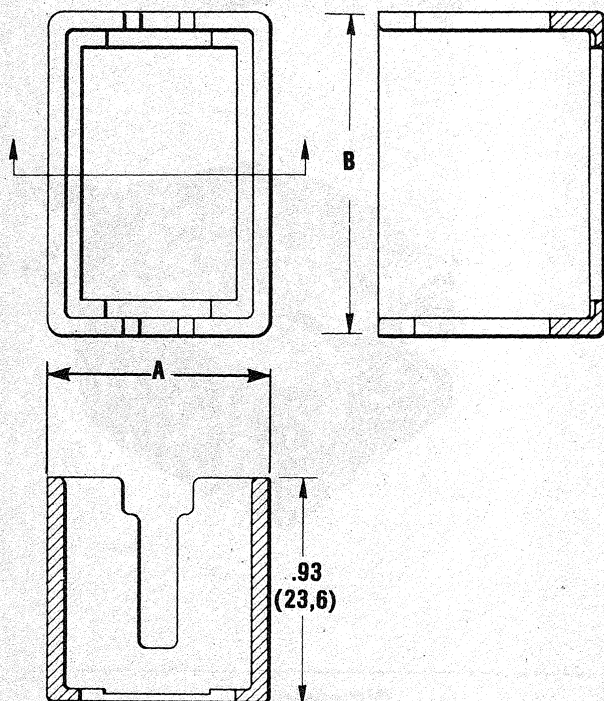
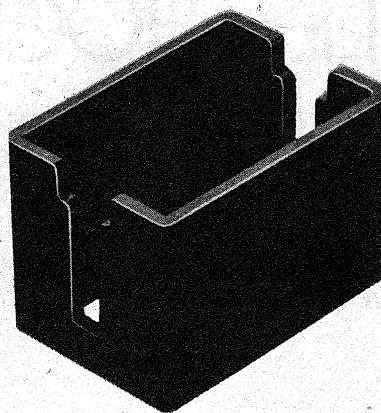
QIKMATE Contact Position	Catalog No.	Wire Bundle (Max.)	Recommended UNIRAP Cable tie	Dimensions			
				A	B	C	D (max.)
2	SMS2H-1	.33 (8,4)	TF-4	1.82 (46,2)	.66 (16,7)	.42 (10,6)	2.22 (56,3)
3	SMS3H-1	.33 (8,4)	TF-4	1.82 (46,2)	.76 (19,3)	.42 (10,6)	2.22 (56,3)
4	SMS4H-1	.39 (9,9)	TF-4	1.82 (46,2)	.96 (24,3)	.42 (10,6)	2.22 (56,3)
6	SMS6H-1	.32 (8,1)	TF-4	1.82 (46,2)	.76 (19,3)	.62 (15,7)	2.22 (56,3)
9	SMS9H-1	.36 (9,1)	TF-5	1.78 (45,2)	.76 (19,3)	.82 (20,8)	2.18 (55,3)
12	SMS12H-1	.400 (10,2)	TF-5	1.78 (45,2)	.76 (19,3)	1.02 (25,9)	2.18 (55,3)
15	SMS15H-1	.435 (10,9)	TF-5	1.98 (50,2)	.76 (19,3)	1.22 (30,9)	2.38 (60,4)
18	SMS18H-1	.465 (11,7)	TF-5	1.98 (50,2)	.76 (19,3)	1.42 (36,0)	2.38 (60,4)
24	SMS24H-1	.50 (12,7)	TF-5	1.99 (50,5)	.96 (24,3)	1.42 (36,0)	2.39 (60,7)
36	SMS36H-1	.62 (15,7)	TF-5	2.28 (57,9)	1.96 (49,7)	1.02 (25,9)	2.68 (68,0)

All Dimensions: $\frac{\text{in.}}{(\text{mm})}$

PIN PROTECTION SHROUDS

When pins are inserted into the panelmount receptacle half of the QIKMATE 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 cut-outs 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 .090 to .062 (max.).



All Dimensions: $\frac{\text{in.}}{(\text{mm})}$

Number of Contacts	Catalog Number	A	B
2	SMS2CSB1	.78 (19,8)	.74 (18,8)
3	SMS3CSB1	.92 (23,4)	
4	SMS4CSB1	1.12 (28,4)	
6	SMS6CSB1	.92 (23,4)	.94 (23,9)
9	SMS9CSB1		1.14 (29,0)
12	SMS12CSB1		1.34 (34,0)
15	SMS15CSB1		1.54 (39,1)
18	SMS18CSB1		1.74 (44,2)
24	SMS24CSB1	1.12 (28,4)	1.74 (44,2)
36	SMS36CSB1	2.13 (54,1)	1.34 (34,0)

DISCRIMINATING PINS

Discriminating pins are non-conductive plastic contacts. Inserted into unfilled contact holes, they permit mating only with QIKMATE connectors having a corresponding vacant contact position.

Discriminating pins are available in quantities of 5. When ordering, please quote catalog number SMSPKB1-5PK.

For the P.C. boardmount, a polarizing sleeve that slips over the fixed pin is also available. When requesting sleeves, please quote catalog number SMSPKB-2.

