

WHY QIKMATE

QIKMATE, in a word, is "versatility". More than just a connector, it is a highly cost-effective system approach to solving interconnect problems. That system includes a whole family of connector bodies all designed to accommodate the "Trim Trio" contacts. "Trim Trio" power and signal contacts are available in stamped and formed, machined and sub-miniature coax for maximum flexibility, dependability and ease of assembly. Any combination of the contacts can be used interchangeably in any position in either half of the connector. **The same contacts are also used in other connector bodies making up the Trim Trio Interconnection System, including Miniature Round and Hyfen Rectangular connectors.***

QIKMATE housing and TRIM TRIO contacts provide the additional advantage of standardization resulting in simplified paperwork, reduced inventory, faster assembly and uniform quality control. In addition, there is also the advantage of universal installation tooling and simplified operator training.

Designed to meet or exceed international safety and performance specifications, QIKMATE is the choice of many multinational corporations who recognize the superiority of the QIKMATE, TRIM-TRIO combination.

*for additional information see BURNDY publication CG-116

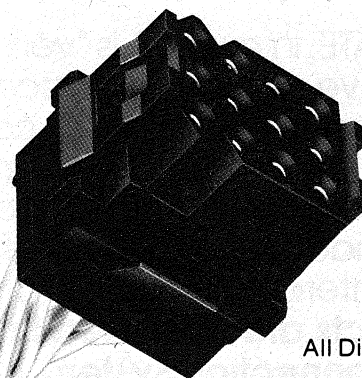
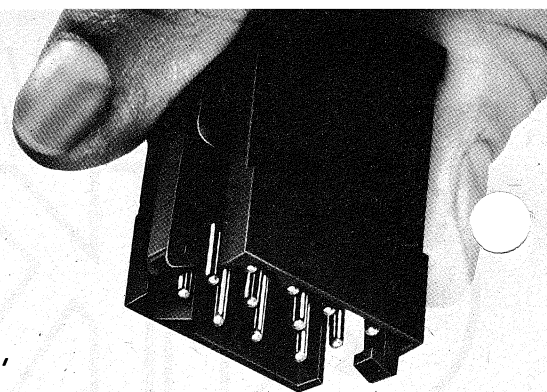
PERFORMANCE CHARACTERISTICS

CHARACTERISTICS	PERFORMANCE
Operating Temperature	-67°F to +221°F (-55°C to +105°C)
Insulating Resistance	5000 megohms at 500 volts D.C.
Test potential (1 min. Duration) at sea level	2000 volts A.C.
Contact retention in connector (min.)	10 pounds (44.48 N)
Connector Mating forces	2 position 1.0 pounds (4.45 N) 3 position 1.5 pounds (6.67 N) 4 position 2.0 pounds (8.90 N) 6 position 3.0 pounds (13.34 N) 9 position 4.5 pounds (20.02 N) 12 position 6.0 pounds (26.69 N) 15 position 7.5 pounds (33.36 N) 18 position 9.0 pounds (40.03 N) 24 position 12.0 pounds (53.38 N) 36 position 18.0 pounds (80.06 N)
Humidity (240 hrs. at 40°C, 90-95% R.H.)	Meets insulation resistance and test voltage requirements
Vibration (Per MIL-STD 202 Method 204)	No cracking of dielectric or loosening of contacts, no discontinuity of current greater than 10 microseconds
Shock (Per MIL-STD-202B Method 213 Cond. A.)	No cracking of dielectric or loosening of contacts, no discontinuity of current greater than 10 microseconds
Durability	Shall withstand 500 matings and unmatings
Working Voltage	750 Volts (see notes 3 & 4)
Material	NYLON — Per MIL-M-20693A UL94V-2 Color: black (STD.)

Notes: 1. This connector will accommodate wire insulation up to .165 max. dia.
2. Contact designations shown appear on both mating face and wire face connector.
3. U.L. recognized—File No. E 31151.
4. CSA Certified—File 1 R 39151

STANDARD CONNECTORS

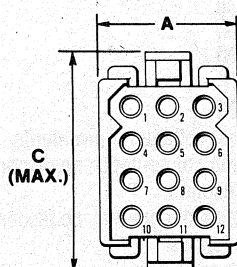
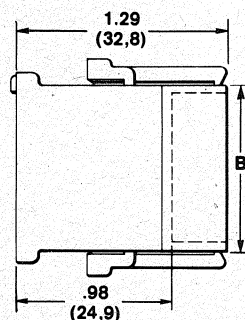
Panelmount QIKMATE is available in 2, 3, 4, 6, 9, 12, 15, 18, 24 and 36 positions. Intended for use in panel thicknesses of .030 to .090, the receptacle features positive housing retention and quickly snaps into the prepared cut-out in the mounting panel. Should removal be necessary, it is accomplished by depressing the molded-in latches of the receptacle.



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

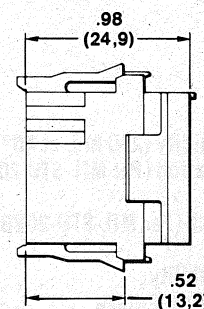
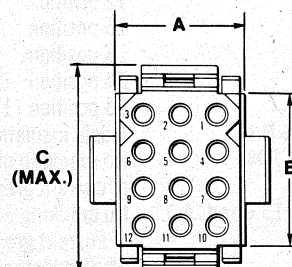
PLUGS

Number of Contacts	Catalog No.	A	B	C (Max.)
2	SMS2P-1	.59 (15,0)	.33 (8,4)	.70 (17,8)
3	SMS3P-1	.73 (18,5)	.33 (8,4)	.70 (17,8)
4	SMS4P-1	.93 (23,6)	.33 (8,4)	.70 (17,8)
6	SMS6P-1	.73 (18,5)	.53 (13,5)	.90 (22,9)
9	SMS9P-1	.73 (18,5)	.73 (18,5)	1.10 (27,9)
12	SMS12P-1	.73 (18,5)	.93 (23,6)	1.30 (33,0)
15	SMS15P-1	.73 (18,5)	1.13 (28,7)	1.50 (38,1)
18	SMS18P-1	.73 (18,5)	1.33 (33,8)	1.70 (43,2)
24	SMS24P-1	.93 (23,6)	1.33 (33,8)	1.70 (43,2)
36	SMS36P-1	1.93 (49,0)	.93 (23,6)	1.30 (33,0)



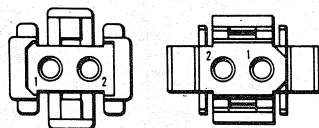
RECEPTACLES

Number of Contacts	Catalog No.	A	B	C (Max.)
2	SMS2R-1	.43 (10,9)	.23 (5,8)	.60 (15,2)
3	SMS3R-1	.63 (16,0)	.23 (5,8)	.60 (15,2)
4	SMS4R-1	.83 (21,1)	.23 (5,8)	.60 (15,2)
6	SMS6R-1	.63 (16,0)	.43 (10,9)	.80 (20,3)
9	SMS9R-1	.63 (16,0)	.63 (16,0)	1.00 (25,4)
12	SMS12R-1	.63 (16,0)	.83 (21,1)	1.20 (30,5)
15	SMS15R-1	.63 (16,0)	1.03 (26,2)	1.40 (35,6)
18	SMS18R-1	.63 (16,0)	1.23 (31,2)	1.60 (40,6)
24	SMS24R-1	.83 (21,1)	1.23 (31,2)	1.60 (40,6)
36	SMS36R-1	1.83 (46,5)	.83 (21,1)	1.20 (30,5)



CONTACT IDENTIFICATION

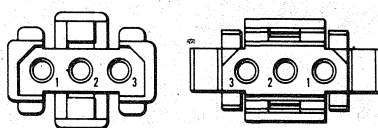
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POSITION**



PLUG

RECEPTACLE

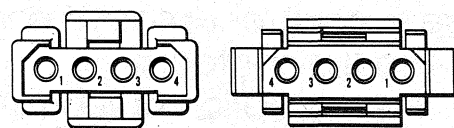
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POSITION**



PLUG

RECEPTACLE

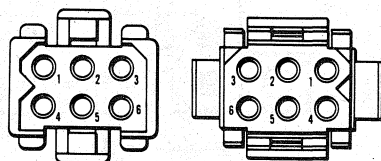
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POSITION**



PLUG

RECEPTACLE

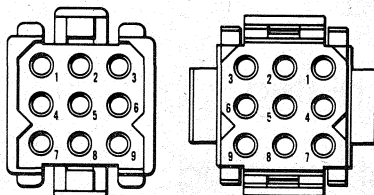
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POSITION**



PLUG

RECEPTACLE

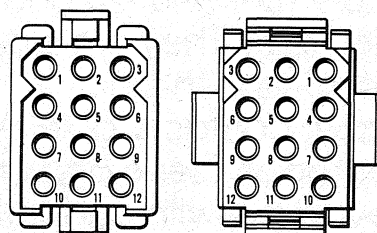
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POSITION**



PLUG

RECEPTACLE

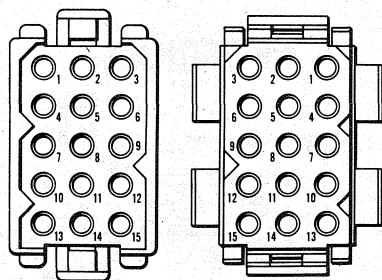
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POSITION**



PLUG

RECEPTACLE

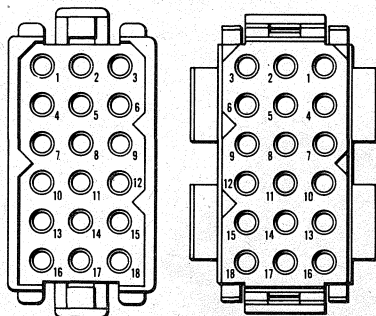
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POSITION**



PLUG

RECEPTACLE

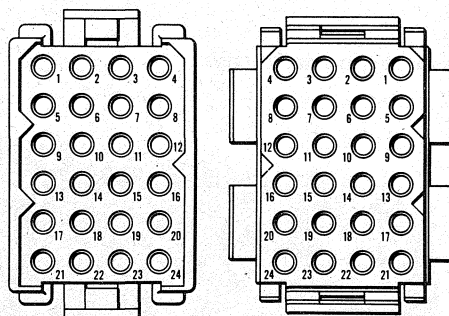
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POSITION**



PLUG

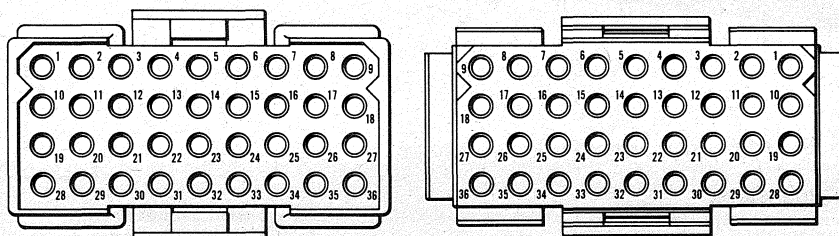
RECEPTACLE

**24
POSITION**



PLUG

RECEPTACLE



PLUG

RECEPTACLE

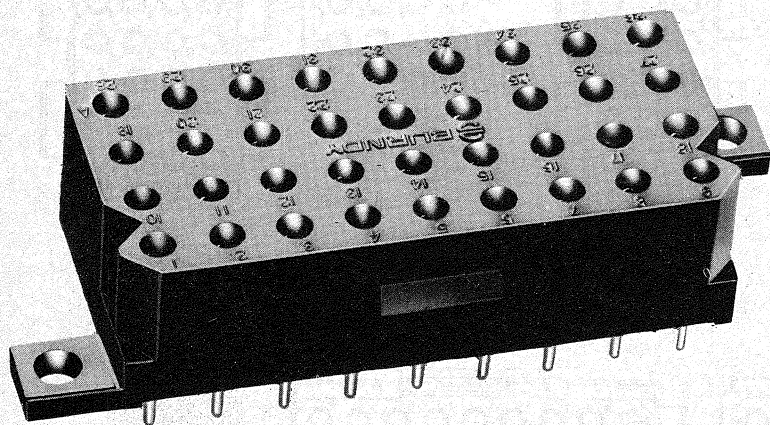
**36
POSITION**

P.C. BOARDMOUNT CONNECTORS

These special receptacles enable QIKMATE and Trim Trio contacts (with the exception of subminiature coaxial contacts) to be P.C. board mounted using conventional solder production techniques. They will then mate and latch with standard plugs.

Boardmount QIKMATE is available in 2-3-4-6-9*-12-15*-18*-24 and 36 position sizes. They are supplied fully loaded with pin or socket contacts, gold or tin plated. Receptacles sizes 6 and up, are available with and without mounting flanges for P.C. board mounting options. When requesting the flangeless receptacle delete the "E" from the catalog number used in the table.

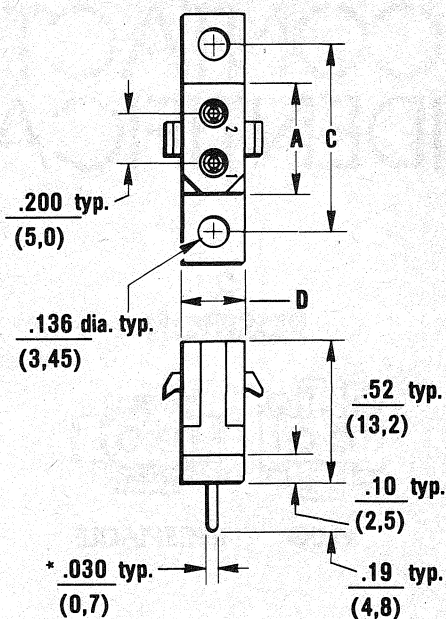
*supplied with pin contacts only.



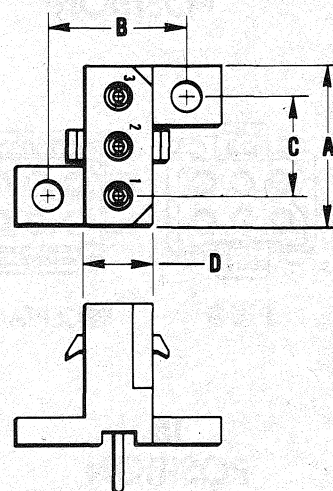
Max. Boardmount Current Rating — 5 amps.

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

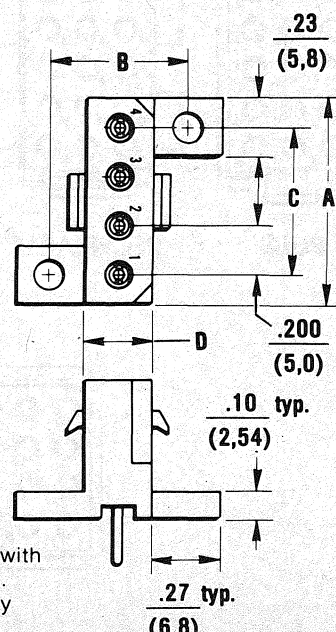
2 POSITION



3 POSITION

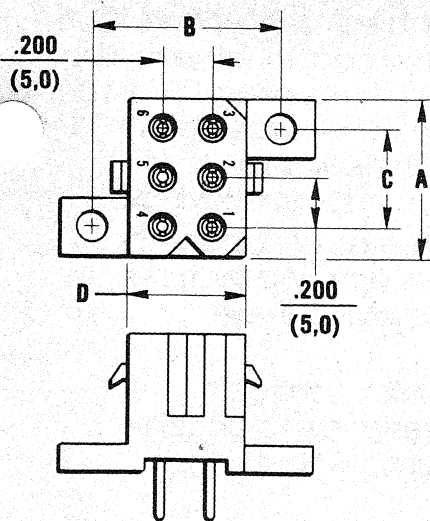


4 POSITION

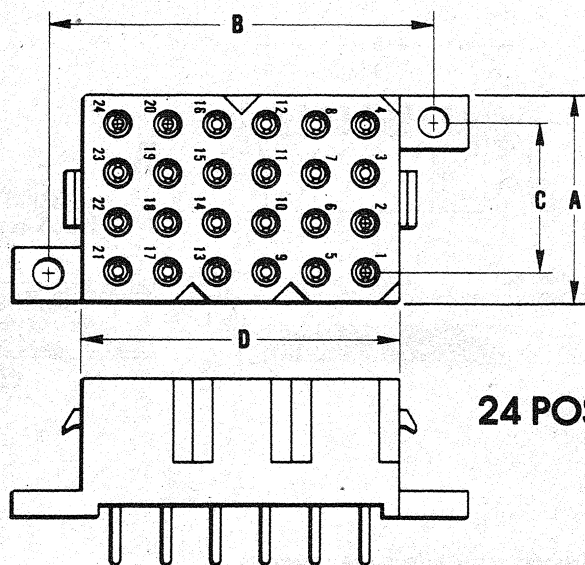
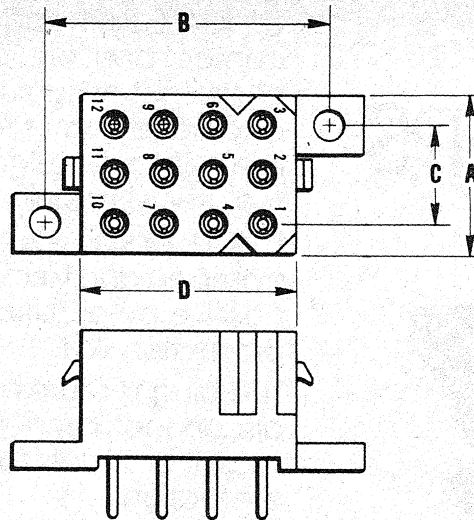


*Also available with .050 solder tail. Consult factory for availability

6 POSITION

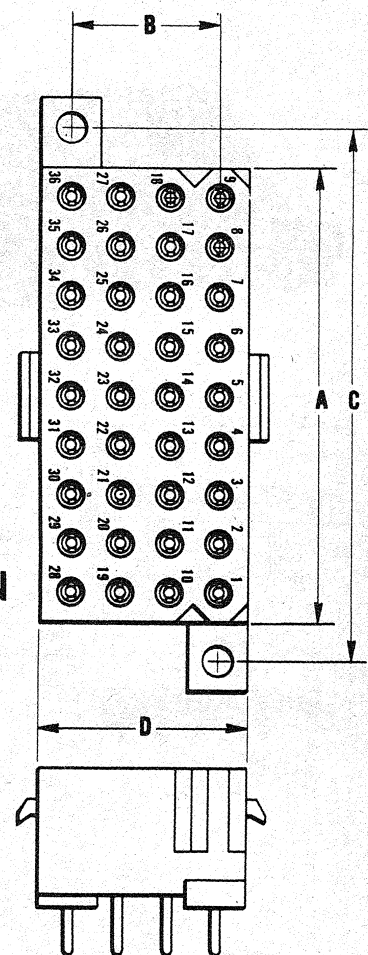


12 POSITION



24 POSITION

36 POSITION

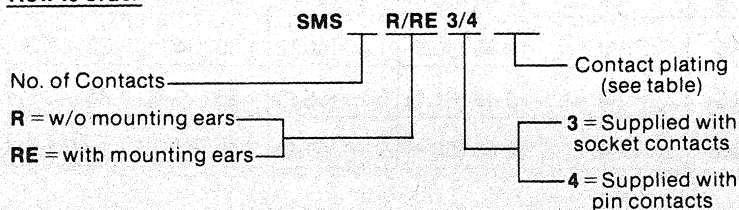


RACK & PANEL

Number of Contacts	Catalog Number	A	B	C	D
2	SMS2RE-3/4 _____	.43 (10,9)	(Not applicable)	.75 (19,1)	.23 (5,8)
3	SMS3RE-3/4 _____	.63 (16,0)	.55 (14,0)	.40 (10,2)	.23 (5,8)
4	SMS4RE-3/4 _____	.83 (21,1)	.55 (14,0)	.60 (15,2)	.23 (5,8)
6	SMS6RE-3/4 _____	.63 (16,0)	.75 (19,0)	.40 (10,2)	.43 (10,9)
12	SMS12RE-3/4 _____	.63 (16,0)	1.15 (29,2)	.40 (10,2)	.83 (21,1)
24	SMS24RE-3/4 _____	.83 (21,1)	1.55 (39,4)	.60 (15,2)	1.23 (31,2)
36	SMS36RE-3/4 _____	1.83 (46,5)	.60 (15,2)	2.15 (54,6)	.83 (21,1)

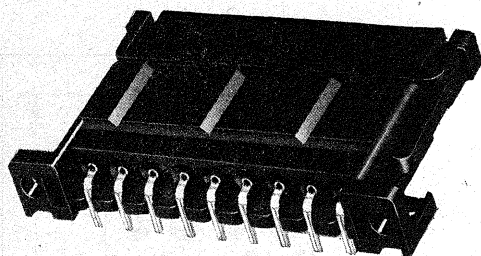
NOTE: All BOARDMOUNT Housings except 2, 3 and 4 position, are available w/o mounting ears.

How to order



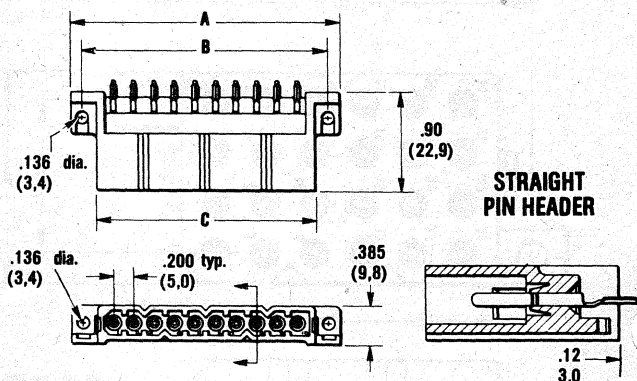
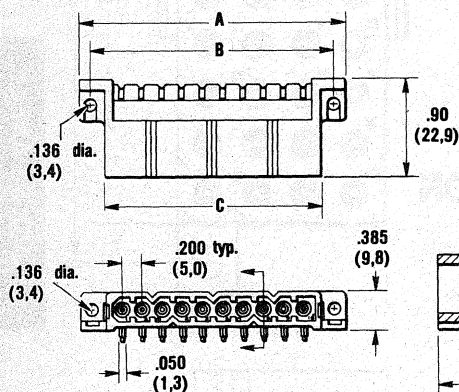
PLATING TABLE		
PLATING SUFFIX	DESCRIPTION	
TK6	TIN-ALLOY PREPLATED	STD PLATING
D70	TYPE D70 PER BURNDY SPEC. F450. .000005 MIN. GOLD OVER .000075 MIN. NICKEL	
S2	.000050 MIN. GOLD OVER .000200 MIN. NICKEL	SELECTIVE PLATING
S4	.000050 MIN. GOLD OVER .000075 MIN. NICKEL	
S6	.000030 MIN. GOLD OVER .000075 MIN. NICKEL	

P. C. PIN HEADERS

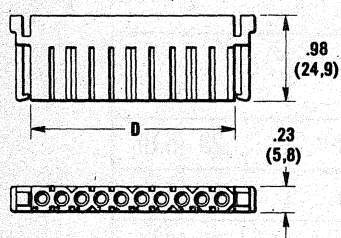


QIKMATE Pin headers, available in 3-4-6-9 and 10 contact positions, provides the additional versatility of straight or right angle board mounting. Offered as an alternative to stacked connectors, the in-line contact design of the pin header provides the user with significant P.C. board space savings. The receptacle is supplied pre-assembled with stamped and formed pin contacts and features positive polarization and a molded-in pin protection skirt.

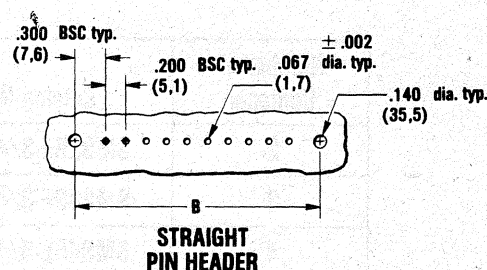
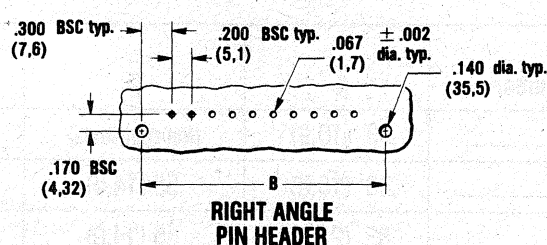
The plug features positive quick connect/disconnect latches and is designed to accept socket contacts for maximum contact protection.



PLUG



RECOMMENDED P.C. BOARD HOLE LAYOUT

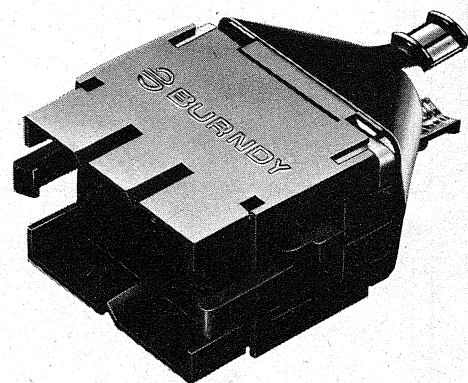
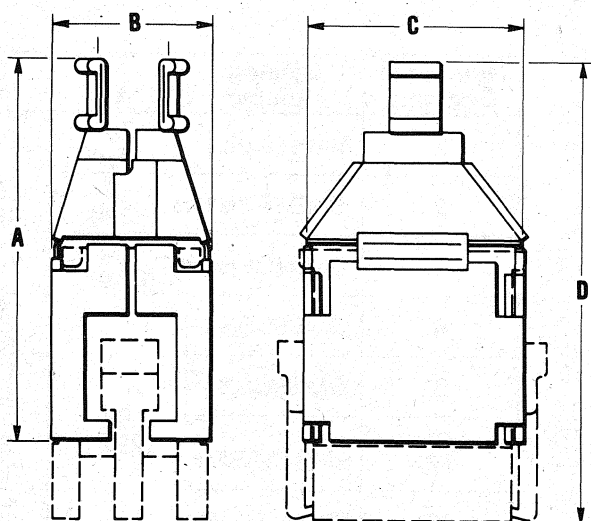
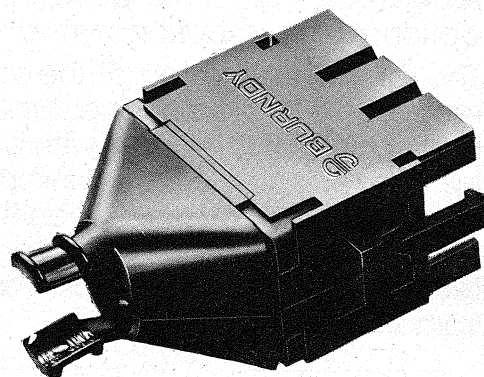


CATALOG NUMBER			NO. OF POSITIONS	Dimensions			
SOCKET PLUG	BOARD MOUNT HEADER			A	B	C	D
	RIGHT ANGLE	STRAIGHT					
SMS3P-3	SMS3PH-3TK6	SMS3PH-4TK6	3	1.23 (31,2)	1.00 (25,4)	.76 (19,3)	.63 (16,0)
SMS4P-3	SMS4PH-3TK6	SMS4PH-4TK6	4	1.43 (36,3)	1.20 (30,4)	.96 (24,4)	.83 (21,1)
SMS6P-3	SMS6PH-3TK6	SMS6PH-4TK6	6	1.83 (46,5)	1.60 (40,6)	1.36 (34,5)	1.23 (31,2)
SMS9P-3	SMS9PH-3TK6	SMS9PH-4TK6	9	2.43 (61,7)	2.20 (55,9)	1.96 (49,8)	1.83 (46,5)
SMS10P-3	SMS10PH-3TK6	SMS10PH-4TK6	10	2.63 (66,8)	2.40 (61,0)	2.16 (54,9)	2.03 (51,6)

All Dimensions: in. (mm)

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

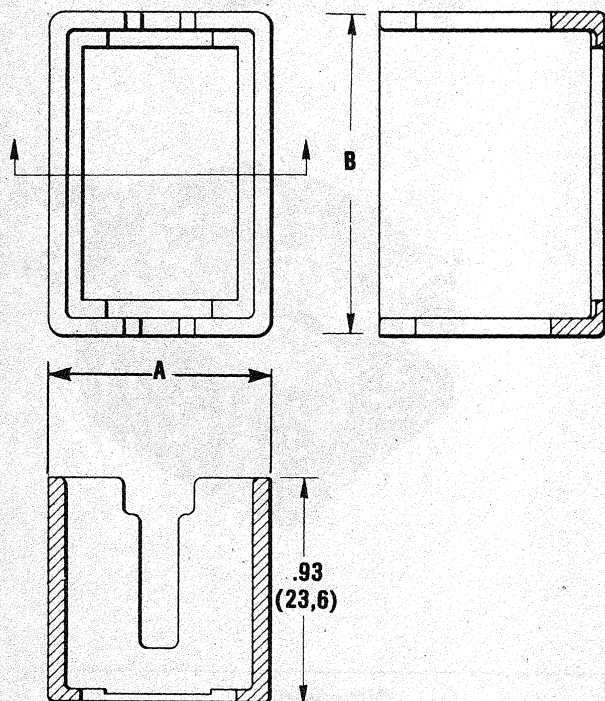
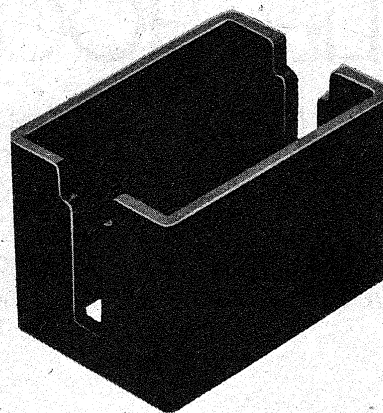
QIKMATE Contact Position	Catalog No.	Wire Bundle (Max.)	Recommended UNIRAP Cable tie	Dimensions			
				A	B	C	D (max.)
2	SMS2H-1	.33 (8,4)	TF-4	1.82 (46,2)	.66 (16,7)	.42 (10,6)	2.22 (56,3)
3	SMS3H-1	.33 (8,4)	TF-4	1.82 (46,2)	.76 (19,3)	.42 (10,6)	2.22 (56,3)
4	SMS4H-1	.39 (9,9)	TF-4	1.82 (46,2)	.96 (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.

