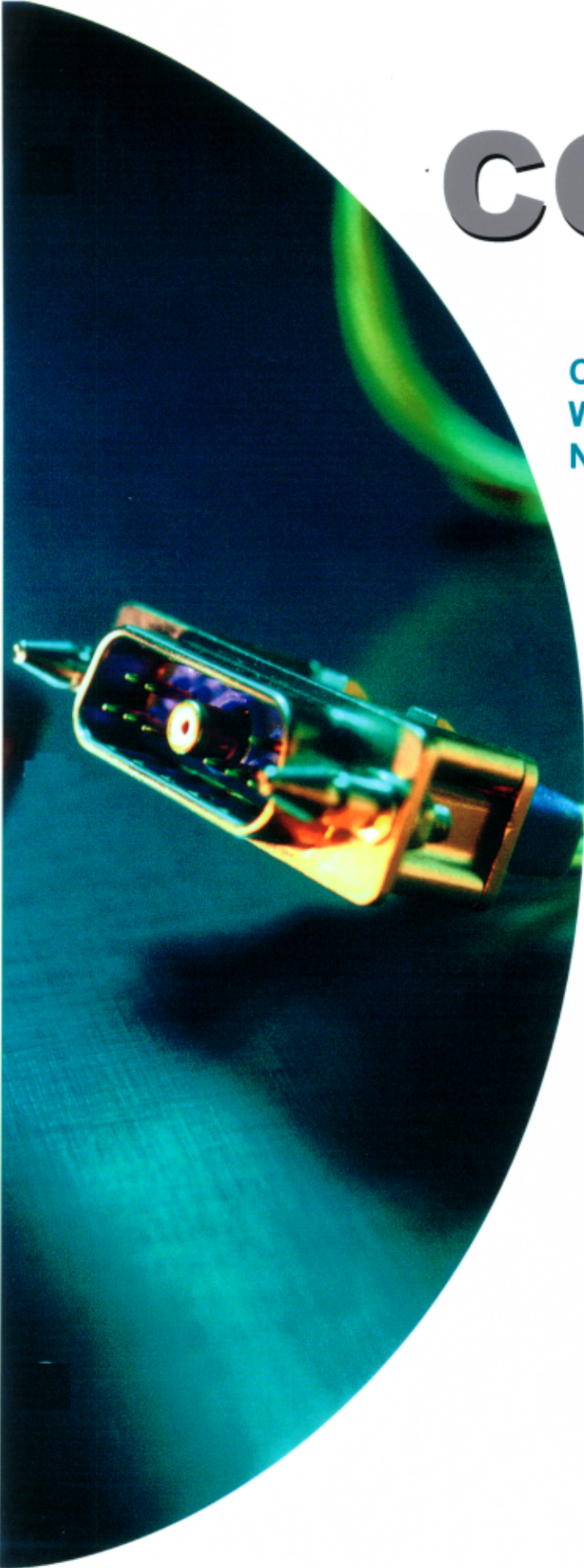




CQ Connectors

**Click. It's connected.
With equal ease, it's disconnected.
No tools needed.**

The only connectors of their kind, this Tri-Star innovation makes installation, modification, and maintenance faster and easier. The unique lock/unlock mechanism in Tri-Star's CQ connectors mates with an audible "click", making them ideal for blind mating applications and hard-to-reach places. Innovative ideas like this are the reason Tri-Star connectors are becoming the IFE industry standard worldwide.



TRI-STAR
ELECTRONICS INTERNATIONAL, INC.

2201 Rosecrans Avenue
El Segundo, CA 90245
Tel: (310) 536-0444
Fax: (310) 536-9322
E-mail: marketing@tri-starelectronics.com
www.tri-starelectronics.com

Features and Benefits

- Unique, built-in locking/unlocking mechanism
- Audible “click” confirms connectors are fully mated.
- No tools needed
- 5 different shell sizes
- Standard D-Subminiature insert arrangements for 9 through 50 positions; including 9 additional coaxial arrangements.
- Available in an environmentally sealed version that prevents moisture intrusion when mated.

Applications

- Ideal for blind mating applications and hard-to reach places such as passenger seats.
- Accommodates, power, signal and coaxial contacts.
- Mates with any standard D-Subminiature or MIL-C-24308 connector when lock post hardware is installed.

“CQ” Coaxial Pin and Socket Contacts

The “CQ” Coaxial Pin and Socket contacts were designed for the BMS 13-65 type “OE”, “OF”, and “OG” coaxial cables intended for the “CQ” series connectors.

The impedance for these coaxial contacts is 50 ohm. The termination is crimp style for both inner and outer contacts with a fold over braid over the ferrule with the exception on the 503 series which is overlay braid. The inner pin and socket are size 20 pin. The outer coax body engagement diameter is (.162 +/- .001).

Coaxial Pin Contacts P/N:

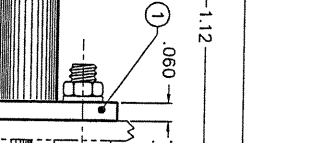
CQMEM-501D	For BMS13-65 type OE
CQMEM-502	For BMS13-65 type OF
CQMEM-503	For BMS 13-65 type OG

Coaxial Socket Contacts P/N:

CQMEF-501D	For BMS13-65 type OE
CQMEF-502A	For BMS13-65 type OF
CQMEF-503	For BMS13-65 type OG

REVISION:	
REV	DESCRIPTION
H	REVISED PER E.O. #14088

-
- RECOMMENDED PANEL CUTOUT
FOR FRONT AND REAR MOUNT



- PART NUMBER
COPYRIGHT

CONTROLLED DRAWING

- [illegible]

	Q. JOHN BRACA, JR.	7/18/97	SOCKET CONTACT, MOISTURE QUICK DISCONNECT
	0-0000		

UNITED STATES SPECIFIC DIMENSIONS ARE IN INCHES TOLERANCES ARE:	
ANGLES	±.01
DO NOT SCALE DRAWING	
BATHING	±.01
RESTRAINT	±.01
FINISH	±.01

TR-STAR	CONN	Q1
2201 ROSECC	SOCKET CON	
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E		
97		
PLK EXX		
D55104		

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REVISIONS				
DATE	BY	DESCRIPTION	DATE	APPROVED
		SEE SHEET 1 FOR REVISIONS		

[illegible][illegible]

2

- ## CONTROLLED DRAWING

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A	II	2
B	II	3
C	II	4
D	II	5

TR-STAR ELECTRONICS INT'L, INC. 2201 ROSECRANS AVE. E. SECOND FL. CA 90245	
CONNECTOR, RECEPTACLE, PIN CONTACT, MOISTURE RESISTING QUICK DISCONNECT	
D55104 DATE: 10/24/84 NAME: 5-CORAEEL	CORR: (***)*P QTY: 1 H

NOTES
(UNLESS OTHERWISE SPECIFIED)

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	SEE SHEET 1 FOR REVISIONS			

CORE(***P		SH	REV	1
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DATE	DESCRIPTION	REV	DATE	APPROVED
	SEE SHEET 1 FOR REVISIONS			

TRI-STAR ELECTRONICS INT'L, INC.
2201 ROSECRANS AVE., EL SEGUNDO, CA 90245

**CONNECTOR, RECEPTACLE,
PIN CONTACT, MOISTURE RESISTANT**

TRI-STAR ELECTRONICS INT'L, INC.
2201 ROSECRANS AVE., EL SEGUNDO, CA 90245

**CONNECTOR, RECEPTACLE,
PIN CONTACT, MOISTURE RESISTANT**

- | PART NUMBER | EXPLANATION |
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| CQ*ME*(...) | S |

[illegible]

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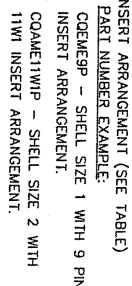
SHELL SIZE	INSERT ARRANGEMENT	TSEI PART No.	CONTACT		A	B	C	D	E	APPROX WEIGHT (LESS CONTACT GRAMS)
			SIZE	QTY.	±.030	±.005	REF	±.005	±.03	
1	9 	COEME9S	#20	9	1.600	.643	.984	.311	1.32	12.69
2	15 	COAME15S	#20	15	1.928	.971	1.312	.311	1.32	17.23
	11W1 	COAME11W1S	#20	10					1.47	
3	25 	COBME25S	#20	25	2.468	1.511	1.852	.311	1.32	22.21
	13W3 	COBME13W3S	#20	10					1.47	
	17W2 	COBME17W2S	#20	15					1.47	
	21W1 	COBME21W1S	#20	20					1.47	
4	37 	COBME37S	#20	37	3.116	2.159	2.500	.311	1.32	27.83
	21W4 	COBME21W4S	#20	17					1.47	
	25W3 	COBME25W3S	#20	22					1.47	
	50 	COBME50S	#20	50					1.32	
5	24W7 	COBME24W7S	#20	17	3.022	2.064	2.406	.423	1.47	34.36
	36W4 	COBME36W4S	#20	32					1.47	
	47W1 	COBME47W1S	#20	46					1.47	
			#8	1					1.47	

NOTES (UNLESS OTHERWISE SPECIFIED)

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- ## NOTES (UNLESS OTHERWISE SPECIFIED)

PART NUMBER	EXPLANATION
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NOT LIST	LISTED
APPLICATION	

CO ² /ME ⁺ (*)P		SA	1	ST	1
RETURNING					
DATE	DESCRIPTION	REV	ZML		
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		F	REMOVED PER E.O. #14557		

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SHELL SIZE	INSERT ARRANGEMENT	TSEI PART NO.	CONTACT		A ±.030	B ±.005	C REF	D ±.005	E ±.03	APPROX WEIGHT (LESS CONTACT) GRAMS
			SIZE	QTY.						
1	9 	COEME9P	#20	9	1.600	.666	.984	.329	1.16	11.79
	15 	COAME15P	#20	15	1.928	.994	1.312	.329	1.16	15.87
2	11W1 	COAME11W1P	#20 #8	10 1	1.928	.994	1.312	.329	1.31	15.87
	25 	COBME25P	#20	25	1.928	.994	1.312	.329	1.31	15.87
3	13W3 	COBME13W3P	#20 #8	10 3	2.468	1.534	1.852	.329	1.16	20.40
	17W2 	COBME17W2P	#20 #8	15 2	2.468	1.534	1.852	.329	1.31	20.40
	21W1 	COBME21W1P	#20 #8	20 1	2.468	1.534	1.852	.329	1.31	20.40
	37 	COBME37P	#20	37	2.468	1.534	1.852	.329	1.31	20.40
4	21W4 	COQME21W4P	#20 #8	17 4	3.116	2.182	2.500	.329	1.16	22.67
	25W3 	COQME25W3P	#20 #8	22 3	3.116	2.182	2.500	.329	1.31	22.67
	50 	COQME50P	#20	50	3.116	2.182	2.500	.329	1.31	22.67
5	24W7 	COQME24W7P	#20 #8	17 7	3.022	2.079	2.406	.436	1.31	31.73
	36W4 	COQME36W4P	#20 #8	32 4	3.022	2.079	2.406	.436	1.31	31.73
	47W1 	COQME47W1P	#20 #8	46 1	3.022	2.079	2.406	.436	1.31	31.73

NOTES (UNLESS OTHERWISE SPECIFIED)

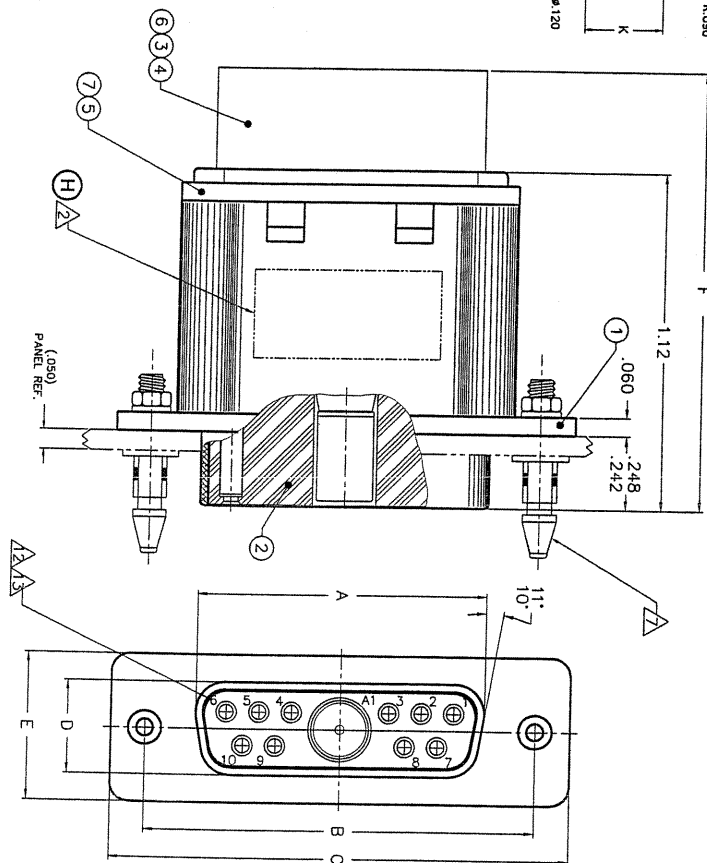
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100	7/17/97	H. CONLEY JR.	REVISION

TR-STAR ELECTRONICS INT'L, INC.	
2201 ROSSDALE AVE., E. SECOND, CA 95245	
CONNECTOR, PLUG, PIN CONTACT	
MOISTURE RESISTING, QUICK DISCONNECT	
(NON-CONDUCTIVE)	
REV	DATE
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FORM NO.		COARE (see) S		SM	REV	1
REVIEWS						
DATE	BY	REVISION	DATE	APPROVED		

- LOCKPOSTS SHOWN INSTALLED FOR REFERENCE ONLY.
6. BACKSHELL ARE PURCHASED SEPARATELY UNDER FOLLOWING P/N:
- CO-PI = POLAR TYPE ORIENTATION
 - CO-EL = POLAR TYPE ORIENTATION
 - CO-SL = STRAIGHT TYPE ORIENTATION
 - CO-CC = CONDUCTIVE ENCLOSED BACKSHELL
5. CONNECTOR IS DESIGNED FOR APPLICATIONS REQUIRING MOISTURE RESISTING PROPERTIES. SEE BEINGING SPEC FOR LIMITATIONS ON USE.
4. MATES WITH TSEI CO²ME²(***p) AND CO²CE²(***p) MOISTURE RESISTING PLUG CONNECTOR AND TSEI CO²MA²(***p) NON MOISTURE RESISTING PLUG CONNECTOR.
3. MATERIAL AND FINISH:
- SHELL AND RETAINING PLATE: ALUMINIUM ALLOY WITH ELECTROLESS NICKEL PLATE PER MIL-C-26074.
 - CONTACT RETAINING CLIP: BERYLLIUM COPPER, HEAT TREATED.
 - INSULATOR: HIGH GRADE DIELECTRIC, COLOR BLACK.
 - OROHMET: SILICONE RUBBER, COLOR BLUE.
 - RETAINING PLATE SCREW: STAINLESS STEEL.
2. MARKINGS: "TSEI", "DATE CODE, CAGE CODE "56104", AND PART NUMBER.
1. (H) 2

NOTES
(UNLESS OTHERWISE SPECIFIED)



CONTROLLED DRAWING

PART NUMBER	EXPLANATION
CQ*RE*(***)S	

— INSERT ARRANGEMENT (SEE TABLE)
PART NUMBER EXAMPLE:

CUERREYS - SHELL SIZE 1 WITH 9 PIN
INSERT ARRANGEMENT.

11W1 INSERT ARRANGEMENT.

SHELL SIZE
E = 1

U	=	1
A	=	2
B	=	3
C	=	4
D	=	5

[illegible]

4	1	INSERT RETAINING PLATE SCREW	7
1	2	CLIP CONTACT REL. SIZE 20	8
1	3	PLATE, INSERT RETAINING	9
1	4	GROMMET	10
1	5	INSULATOR SOCKET REAR	11
1	6	INSULATOR SOCKET FRONT	12
1	7	SHELL, RECEPTACLE SOCKET	13
1	8	RECEPTACLE SOCKET	14
1	9	RECEPTACLE SOCKET	15
1	10	RECEPTACLE SOCKET	16
1	11	RECEPTACLE SOCKET	17
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1	99	RECEPTACLE SOCKET	105
1	100	RECEPTACLE SOCKET	106
1	101	RECEPTACLE SOCKET	107
1	102	RECEPTACLE SOCKET	108

TRI-STAR ELECTRONICS INT'L, INC.
2201 ROSECRANS AVE. EL SEGUINO, CA 95020

CONNECTOR, RECEPTACLE,
EET CONTACT, MOISTURE RESISTANT
QUICK DISCONNECT

055104 CQ*RE*(..

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REV	DATE	BY	REVISION
1			
SEE SHEET 1 FOR REVISIONS			

SHELL SIZE	INSERT ARRANGEMENT	TSEI PART No.	CONTACT		A	B	C	D	E	F	G	H	J	K	L	M	N	P	(APPROX WEIGHT) (LESS CONTACT) GRAMS
			SIZE	QTY.	±.005	±.005	±.015	±.005	±.005	±.03				±.002	±.002	±.004	±.003	±.003	
1	9 	COERE9S	#20	9	.643	.984	1.213	.311	.494	1.32	.843	.547	.984	.521	.445	.750	.285	-0-	10.43
2	15 	COARE15S	#20	15	.971	1.312	1.541	.311	.494	1.32	1.171	.547	1.312	.521	.445	1.078	.595	.275	14.96
	11W1 	COARE11W1S	#8	1						1.47									
	25 	COBRE25S	#20	25						1.32									
3	13W3 	COBRE13W3S	#20	10															
	17W2 	COBRE17W2S	#20	15	1.511	1.852	2.088	.311	.494	1.47	1.709	.547	1.852	.521	.445	1.618	1.135	.715	20.85
	21W1 	COBRE21W1S	#8	20															
	37 	COCRE37S	#20	37						1.32									
4	21W4 	COCRE21W4S	#20	17															
	25W3 	COCRE25W3S	#8	4	2.159	2.500	2.729	.311	.494	1.47	2.356	.547	2.500	.521	.445	2.266	1.783	1.213	26.75
	50 	COCRE50S	#20	50						1.32									
5	24W7 	COCRE24W7S	#20	17															
	36W4 	COCRE36W4S	#8	7	2.064	2.406	2.635	.423	.605										
	47W1 	COCRE47W1S	#20	32						1.47	2.262	.659	2.406	.633	.557	2.172	1.689	1.115	31.28

NOTES (UNLESS OTHERWISE SPECIFIED)

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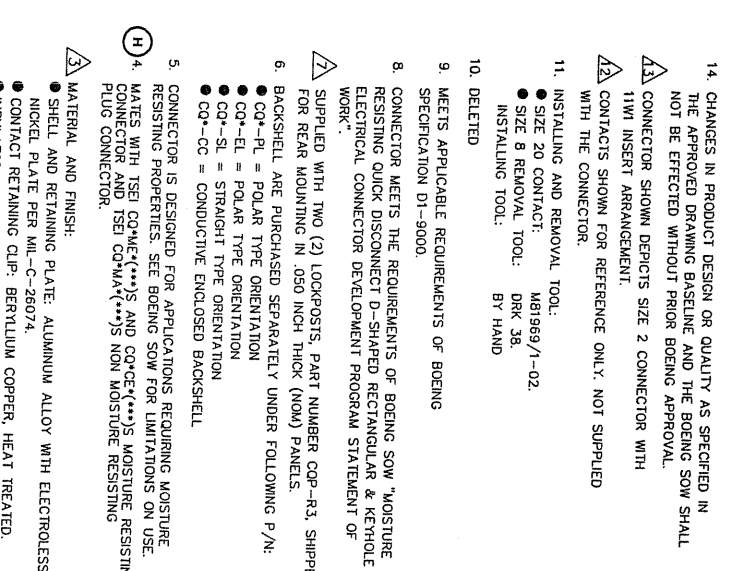
2

2

PARTS LIST		REVISIONS		APPROVALS	
QTY	DESCRIPTION	REV	DATE	BY	DATE
1	TR-STAR ELECTRONICS INT'L, INC.				
1	2201 ROSSDALE AVE., E. SECOND, CA 90245				
1	CONNECTOR, RECEPTACLE, SOCKET CONTACT, MOISTURE RESISTING QUICK DISCONNECT				
1	DB5104 CO*RE*(***)S				
1	CO*RE*(***)S				

REVISIONS				
NO.	REV	DESCRIPTION	DATE	APPROVED
	H	REVISED PER E.O. #14088		

- TR-STAR ELECTRONICS INT'L, INC.



1

INTERFACIAL SEAL

CLIP, CONTACT RET., SIZE 20
PLATE, INSERT RETAINING

INSULATOR, PIN REAR
INSULATOR, PIN FRONT

TEST	UNIT	DESIGNATION
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ARE:		
ANGLES	XX	XXX
1.50	1.01	1.003
DO NOT SCALE DRAWING		
MATERIAL	DETAILS	FINISH
3		3

TR-STAR ELECTRONICS INT'L. INC.	
2201 ROSEBANK AVE., EL SECONDO, CA 90245	
DATE	1/25/77
CONNECTOR, RECEPTACLE, PIN CONTACT, MOISTURE RESISTING QUICK DISCONNECT	
QTY	1055104
PRICE	00-RE-4(***P)
PO#	5-CORP-1
DATE REC'D	1977 1 2
BY	H

TRI-STAR ELECTRONICS
2201 ROSECRANS AVE.

DATE	7/29/97
CONNECTOR	
PIN CONTACT, M	

DATE	05/10/04
TIME	10:10

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CO-REX(***P 2		1	
REV	DATE	REV	DATE
1		2	
SEE SHEET 1 FOR REVISIONS			

SHELL SIZE	INSERT ARRANGEMENT	TSEI PART No.	CONTACT		A	B	C	D	E	F	G	H	J	K	L	M	N	P	APPROX WEIGHT (LESS CONTACT) GRAMS
			SIZE	QTY.	±.005	±.005	±.015	±.005	±.005	±.03				±.002	±.002	±.004	±.003	±.003	
1		COARE9P	#20	9	.666	.984	1.213	.329	.494	1.16	.843	.547	.984	.521	.445	.750	.285	-0-	9.15
			#20	15	.994	1.312	1.541	.329	.494	1.16	1.171	.547	1.312	.521	.445	1.078	.595	.275	12.69
2		COARE11WP	#20	10						1.31									
			#8	1															
3		COBRE25P	#20	25						1.16									
			#20	10															
			#8	3															
			#20	15	1.534	1.852	2.088	.329	.494	1.31	1.709	.547	1.852	.521	.445	1.618	1.135	.715	17.79
			#8	2															
4		COBRE21WP	#20	20															
			#8	1															
			#20	37						1.16									
5		COBRE21W4P	#20	17															
			#8	4	2.182	2.500	2.729	.329	.494	1.31	2.356	.547	2.500	.521	.445	2.266	1.783	1.213	23.25
			#8	3															
5		COBRE25W3P	#20	50						1.16									
			#20	17															
			#8	7															
			#20	32	2.079	2.406	2.635	.436	.605	1.31	2.262	.659	2.406	.633	.557	2.172	1.689	1.115	27.50
			#8	4															
5		COBRE36W4P	#20	46															
			#8	1															
5		COBRE47W1P	#20	46															
			#8	1															

NOTES (UNLESS OTHERWISE SPECIFIED)

8	7	6	5	4	3	2	1
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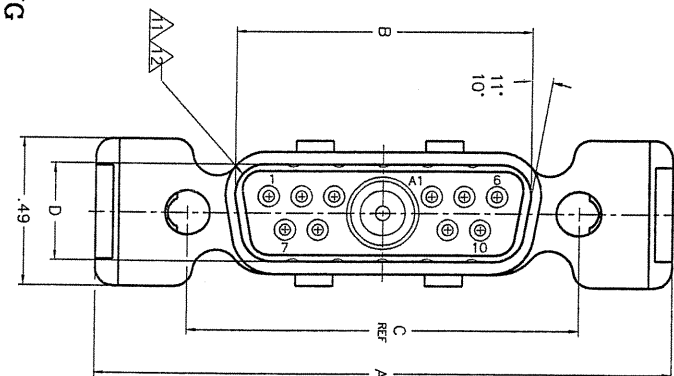
PARTS LIST		REVISIONS	
REV	DATE	REV	DATE
1		2	
TRISTAR ELECTRONICS INT'L, INC.			
2801 HOSCHANG AVE., EL SEGUNDO, CA 90245			
CONNECTOR, RECEPTACLE, PIN CONTACT, MOISTURE RESISTANT QUICK DISCONNECT			
APPROVALS		DATE	
DESIGNED BY	DATE	APPROVED BY	DATE
DB5104			
CO-REX(***P 2		1	

[illegible]

CO

MAYBOOKS				
204C	REV	DESCRIPTION	DATE	APPROVED
	E	REMSD PER E.O. #14086	2/15/01	FMA
	F	REMSD PER E.O. #14567		

-
- 1.02
- 2.38
- 11 10 9 7
- 8 6
- 1 2 3 4 5
- PART NUMBER EXPLANATION
- CO*ME*(***)P
- INSERT ARRANGEMENT (SEE TABLE)
- PART NUMBER EXAMPLE:
- CO*ME*P - SHELL SIZE 1 WITH 9 PIN INSERT ARRANGEMENT.
- CO*ME*11WP - SHELL SIZE 2 WITH 11WP INSERT ARRANGEMENT.
- SHELL SIZE
- E = 1
- A = 2
- B = 3
- CONTROLLED DRAW
- | CALLOUT | DESCRIPTION |
|---------|---|
| 1 | CO*ME*P - SHELL SIZE 1 WITH 9 PIN INSERT ARRANGEMENT. |
| 2 | CO*ME*11WP - SHELL SIZE 2 WITH 11WP INSERT ARRANGEMENT. |
| 3 | SHELL SIZE |
| 4 | E = 1 |
| 5 | A = 2 |
| 6 | B = 3 |



Q

TR-STAR ELECTRONICS INT'L, INC.					
2201 ROSCAMANS AVE., EL SEGUNDO, CA 90245					
CONNECTOR, PLUG, PIN CONTACT					
MOISTURE RESISTING, QUICK DISCONNECT					
(NON-CONDUCTIVE)					
55104	POS. NO.	QCMWE(***P			REV.
NO. OF PINS	5-CONAMEL	SHEET	OF 2		F

(NON-CONDUCTIVE)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	52
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SHELL SIZE	INSERT ARRANGEMENT	TSEI PART NO.	CONTACT		A ±.030	B ±.005	C REF	D ±.005	E ±.03	APPROX WEIGHT (LESS CONTACT GRAMS)
			SIZE	QTY.						
1		CQEME9P	#20	9	1.600	.666	.984	.329	1.16	11.79
			#20	15	1.928	.994	1.312	.329	1.16	15.87
2		CQAME11WP	#20	10					1.31	
			#8	1						
3		CQBME25P	#20	25					1.16	
			#20	10						
4		CQBME13W3P	#8	3	2.468	1.534	1.852	.329	1.31	20.40
			#20	15						
5		CQBME17W2P	#8	2						
			#20	20						
6		CQBME21WP	#8	1						
			#20	37					1.16	
7		CQOME37P	#20	17	3.116	2.182	2.500	.329	1.31	22.67
			#8	4						
8		CQOME21W4P	#20	22						
			#8	3						
9		CQOME25W3P	#20	50						
			#8	17						
10		CQOME24W7P	#20	7	3.022	2.079	2.406	.436	1.31	31.73
			#8	32						
11		CQOME36W4P	#20	4						
			#8	46						
12		CQOME47W1P	#20	1						
			#8	1						

NOTES (UNLESS OTHERWISE SPECIFIED)

DATE: 10/10/97		BY: H. CONLEY JR.	
REVISION: 1.00		DATE: 7/17/97	
APPROVALS:		DATE:	
H. CONLEY JR.		7/17/97	
CONNECTOR, PLUG, PIN CONTACT MOISTURE RESISTING, QUICK DISCONNECT (NON-CONDUCTIVE)			
D55104		CQ+ME(+)+P	
NONE		CQ+ME(+)+P	

