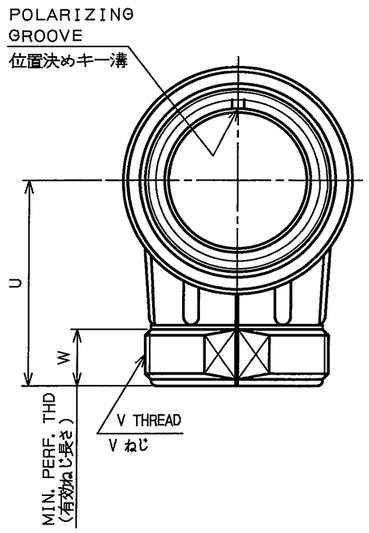
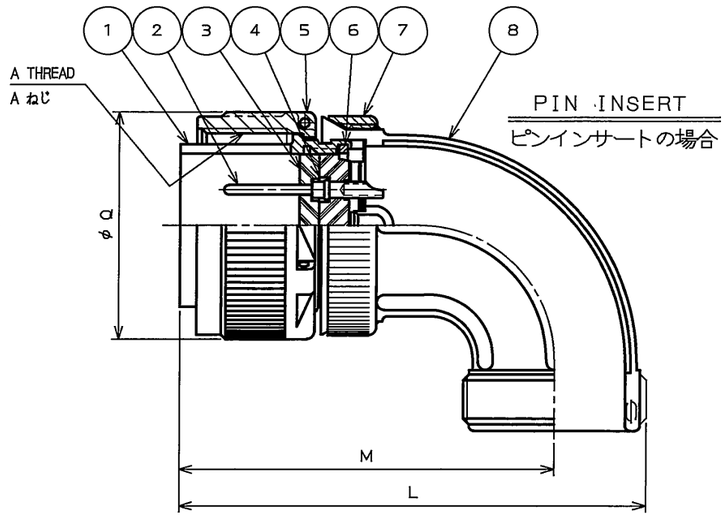
図面番号(DRAWING NO.) SJ100907

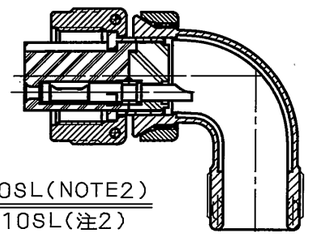
版数 REV.	年月日 DATE	DCN NO.	変更内容 DESCRIPTION	製図 DR.	担当 CHK.	査閲 APPD.	承認 APPD.
2	7.Dec.2005	058422	COLOR CHANGED	H.SAKURADA	T.SUZUKI	T.OKAMURA	A.ONOGAWA
3	22.May.2006	060179	CORRECT AN ERROR etc.	———	N.SASANO	E.Matsumoto	K.Hashiguchi



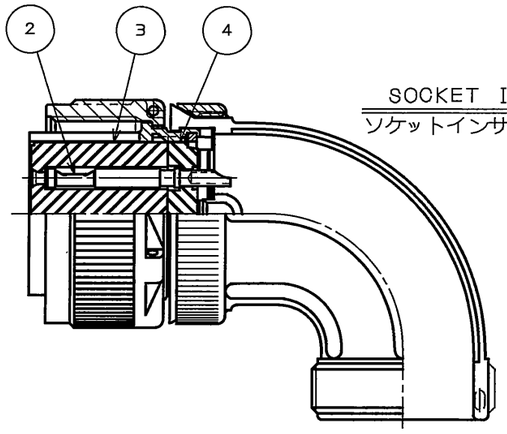


PIN INSERT
ピンインサートの場合

△3



10SL(NOTE2)
10SL(注2)



SOCKET INSERT
ソケットインサートの場合

SHELL SIZE シェルサイズ	A THREAD Aねじ	L MAX	M ±0.8	Q ±0.8	U ±0.8	V THREAD Vねじ	W MIN
10SL	5/8-24UNEF-2B	46.0	36.9	22.2	25.0	5/8-24UNEF-2A	9.52
12S	3/4-20UNEF-	50.8	41.7	25.4	25.4	5/8-24UNEF-	
14S	7/8-20UNEF-	54.0	43.3	28.6	27.0	3/4-20UNEF-	
16S	1 -20UNEF-	60.3	48.0	31.8	28.6	7/8-20UNEF-	
12	3/4-20UNEF-	57.2	46.4	25.4	25.4	5/8-24UNEF-	
14	7/8-20UNEF-	58.7	48.0	28.6	27.0	3/4-20UNEF-	
16	1 -20UNEF-	65.1	52.8	31.8	28.6	7/8-20UNEF-	
18	1 1/8-18UNEF-	68.3	54.4	34.1	32.1	1 -20UNEF-	
20	1 1/4-18UNEF-	77.0	60.7	37.3	33.7	1 3/16-18UNEF-	
22	1 3/8-18UNEF-	77.0	60.7	40.5	33.3	1 3/16-18UNEF-	
24	1 1/2-18UNEF-	86.5	67.1	43.7	34.9	1 7/16-18UNEF-	
28	1 3/4-18UNS -	86.5	67.1	50.0	38.5	1 7/16-18UNEF-	9.52
△3 32	2 -18UNS -	95.2	71.8	56.4	46.4	1 3/4-18UNS-	11.13
36	2 1/4-16UN -	100.0	73.4	62.7	51.2	2 -18UNS -	12.70
40	2 1/2-16UN -	106.4	77.0	69.1	51.2	2 1/4-16UN -	12.70
44	2 3/4-16UN -	112.7	80.2	75.4	56.0	2 1/2-16UN -	14.27
48	3 -16UN -2B	125.4	86.5	81.8	59.1	3 -16UN -2A	15.88

DESIGNATION
命名法

N/MS 3108 B*-※※※

- SERIES シリーズ
- CONFIGURATION 形状
- STRUCTURE 構造
- SHELL SIZE シェルサイズ
- INSERT ARRANGEMENT インサート配列
- CONTACT TYPE (P:PIN, S:SOCKET) 端子形状(P:ピンコンタクト、S:ソケットコンタクト)
- INSERT ROTATING POSITIONS インサート回転角度

NOTE 1. 10SL SHELL SIZE USES ONLY SOCKET INSERT.
2. IN CASE OF 10SL SHELL SIZE, BARREL DOES NOT COVER INSULATOR.
3. REFER TO THE DRAWING SJ100900 FOR INSERT ARRANGEMENT, INSERT ROTATING POSITIONS AND SPECIFICATIONS.
△4. THE CONTACT SOLDER-POTS OF ARRANGEMENT 32-17 ARE FACING THE SAME DIRECTION.

注1.シェルサイズ10SLは、ソケットインサートのみである。
2.シェルサイズ10SLは、インシュレータをバレルがカバーしない構造である。
3.インサート配列、インサート回転角度、仕様は、SJ100900を参照のこと。
△4.配列32-17のコンタクトソルダーポットは、同一方向に向いている。

符号 NO.	名称 DESCRIPTION	個数 QTY.	材料 MATERIAL	仕上 FINISH	備考 REMARKS
8	ENDBELL	1	ALUMINUM ALLOY	ZINC PLATING	△2 COLOR:BLACK SYSTEM INTERFERENCE COLOR
7	ASSEMBLY NUT	1	ALUMINUM ALLOY	ZINC PLATING	△2 COLOR:BLACK SYSTEM INTERFERENCE COLOR
6	RETAINING RING	1	COPPER ALLOY	ZINC PLATING	△2 COLOR:BLACK SYSTEM INTERFERENCE COLOR
5	COUPLING NUT	1	ALUMINUM ALLOY	ZINC PLATING	△2 COLOR:BLACK SYSTEM INTERFERENCE COLOR
4	REAR INSULATOR	1	SYNTHETIC RESIN	———	
3	FRONT INSULATOR	1	SYNTHETIC RESIN	———	
2	CONTACT	—	COPPER ALLOY	SILVER PLATING	SEE INSERT ARRANGEMENT (NOTE3)
1	BARREL	1	ALUMINUM ALLOY	ZINC PLATING	△2 COLOR:BLACK SYSTEM INTERFERENCE COLOR

仕様書(SPECIFICATION) JACS-50003 JAHL-50003
第1版(ORIGINAL DATE) 2.Mar.2005
一般公差(GENERAL TOLERANCE)
寸法(DIMENSION): . ±0.8 / .X ±0.4 / .XX ±0.1 / .XXX ±
角度(ANGLES): X° ± / XºX' ±
製図 DR. ———
担当 CHK. T.SUZUKI
査閲 APPD. E.MATSUMOTO
承認 APPD. M.MAJIME
尺度(SCALE) ———
シリーズ(SERIES) N/MS
名称(TITLE) N/MS3108B*-※※※ (RIGHT ANGLE PLUG アングルプラグ)
質量(MASS)
日本航空電子工業株式会社 JAPAN AVIATION ELECTRONICS INDUSTRY, LTD.
図面番号(DRAWING NO.) SJ100907
版数(REV.) 3
SIZE A3

JAE-CONNECTOR.COM Reference Only

DOF-0-212F(05.08)

0 10 20 30 40 50 60 70 80 90 100

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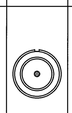
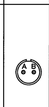
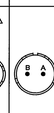
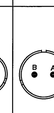
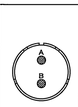
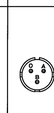
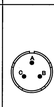
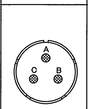
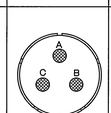
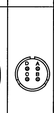
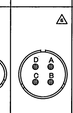
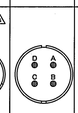
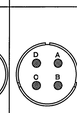
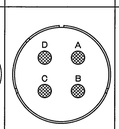
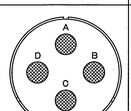
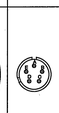
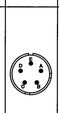
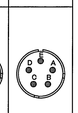
図面番号(DRAWING NO.) SJ100900

版数 REV.	年月日 DATE	DCN NO.	変更内容 DESCRIPTION	製図 DR.	担当 CHK.	査閲 APPD.	承認 APPD.
5	27.Jul.2005	050713	REDRAWN AND CHANGE OF INSERT ARRANGEMENT	———	N.SASANO	E.MATSUMOTO	A.ONOGAWA
6	2.Oct.2006	061217	CHANGE OF INSERT ARRANGEMENT	———	N.SASANO	E.MATSUMOTO	A.ONOGAWA
7	30.Aug.2010	070575	DELETE OF ROTATED ANGLE OF "Y"POSITION OF 22-23		H.TOYOFUKU	—	E.Matsumoto

⚠ INSERT ARRANGEMENT
インサート配列

NO. OF CONTACTS 極数	1極	2極					3極							4極						5極		
INSERT ARRANGEMENT インサート配列	18-16	10SL-4	12S-3	14S-9	16S-4	18-3	20-23	10SL-3	14S-7	16-10	16S-5	18-21	22-2	28-6	14S-2	18-10	20-4	22-22	32-17	36-5	14S-5	16S-8	18-11
INSERT ARRANGEMENT VIEW インサート配列図 /PIN INSERT VIEWED FROM MATING SIDE ピンインサートを嵌合側から見た図です				⚠												⚠ 							
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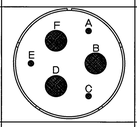
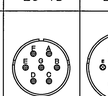
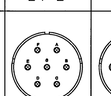
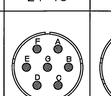
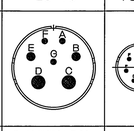
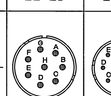
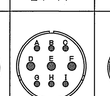
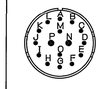
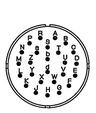
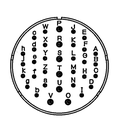
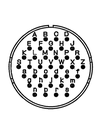
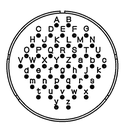
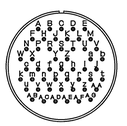
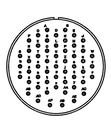
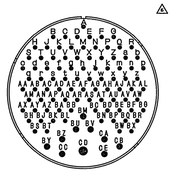
RATED VOLTAGE WITHSTANDING VOLTAGE 定格電圧・耐電圧	C	INST	A	A	D	D	A	INST	A	A	A	A	D	D	INST	A	D	A	D	A	INST	A	A

NO. OF CONTACTS 極数	6極				7極					8極		9極			10極
INSERT ARRANGEMENT インサート配列	14S-6	18-12	20-17	36-3	16S-1	20-15	24-2	24-10	28-10	18-8	22-23	20-16	20-18	24-11	18-1
INSERT ARRANGEMENT VIEW インサート配列図 /PIN INSERT VIEWED FROM MATING SIDE ピンインサートを嵌合側から見た図です															
CONTACT COMPOSITION コンタクト構成 (SIZE X NO. OF CONTACTS サイズX極数)	#16X6極	#16X6極	#12X5極 #16X1極	#0X3極(B,D,F) #12X3極(A,C,E)	#16X7極	#12X7極	#12X7極	# 8X7極	#12X3極(A,F,G) #8X2極(B,E) #4X2極(C,D)	#16X7極 #12X1極	#12X8極	#12X2極(H,I) #16X7極(A~G)	#12X3極(B,F,I) #16X5極 (OTHERS)	# 8X3極(D,E,F) #12X6極(OTHERS)	#16X10極
RATED VOLTAGE WITHSTANDING VOLTAGE 定格電圧・耐電圧	INST	A	A	D	A	A	D	A	D(G) A(OTHERS)	A	D(H) A(OTHERS)	A	A	A	A(B,C,F,G) INST (OTHERS)

NO. OF CONTACTS 極数	11極	14極			16極	17極	19極	22極	24極
INSERT ARRANGEMENT インサート配列	24-20	20-27	22-19	28-20	24-7	20-29	22-14	28-11	24-28
INSERT ARRANGEMENT VIEW インサート配列図 /PIN INSERT VIEWED FROM MATING SIDE ピンインサートを嵌合側から見た図です									
CONTACT COMPOSITION コンタクト構成 (SIZE X NO. OF CONTACTS サイズX極数)	#12X2極(E,F) #16X9極(OTHERS)	#16X14極	#16X14極	#12X10極(A~H,J,P) #16X14極(K~N)	#12X2極(N,P) #16X14極(OTHERS)	#16X17極	#16X19極	#12X4極(J~M) #16X18極(OTHERS)	#16X24極
RATED VOLTAGE WITHSTANDING VOLTAGE 定格電圧・耐電圧	D	A	A	A	A	A	A	A	INST

NO. OF CONTACTS 極数	26極	35極	37極	48極	52極	54極	100極
INSERT ARRANGEMENT インサート配列	28-12	32-7	28-21	36-10	36A34	32A10	48-5
INSERT ARRANGEMENT VIEW インサート配列図 /PIN INSERT VIEWED FROM MATING SIDE ピンインサートを嵌合側から見た図です							⚠ 
CONTACT COMPOSITION コンタクト構成 (SIZE X NO. OF CONTACTS サイズX極数)	#16X26極	#12X7極(O,P,R~V) #16X20極(OTHERS)	#16X37極	#16X48極	#16X52極	#16X54極	#12X9極(BM,BU,BV,BY,BZ,CA~CC,CE) #8X1極(CD)、#16X9極(OTHERS)
RATED VOLTAGE WITHSTANDING VOLTAGE 定格電圧・耐電圧	A	INST(A,B,H,J) A(OTHERS)	A	A	A	A	A

RATED VOLTAGE AND D.W.VOLTAGE IS DENOTED WITH CLASSIFICATION CODE(A, D, etc.). REFER "SPECIFICATION" FOR THEIR CONTENTS.
定格電圧・耐電圧は、分類記号(A,D等)で示してあります。記号の内容は「仕様」を参照下さい。

NOTE 1.THIS DRAWING SHOWS INSERT ARRANGEMENT, INSERT ROTATION POSITION, AND SPECIFICSTION FOR N/MS CONNECTOR.
注1.本図面は、N/MSコネクタの「インサート配列」「インサート回転位置」「仕様」を示すものである。

SPECIFICATION 仕様

	CONTACT SIZE コンタクトサイズ	FOR INDIVIDUAL CONTACT ONLY コンタクト単体の場合	ASSEMBLED IN INSULATOR インシュレータに組込んだ場合
RATED CURRENT (PER CONTACT) 定格電流 (コンタクト1本当り)	#16	22A MAX	13A MAX
	#12	41A MAX	23A MAX
	# 8	73A MAX	46A MAX
	# 4	135A MAX	80A MAX
	# 0	245A MAX	150A MAX
RATED VOLTAGE 定格電圧	CLASSIFICATION CODE 分類記号	VDC	VAC
	INST	250	200
	A	700	500
	D	1250	900
	E	1750	1250
	B	2450	1750
	C	4200	3000
D.W.VOLTAGE 耐電圧	INST	1000VAC(1分間)(1 MINUTE)	
	A	2000VAC(1分間)(1 MINUTE)	
	D	2800VAC(1分間)(1 MINUTE)	
	E	3500VAC(1分間)(1 MINUTE)	
	B	4500VAC(1分間)(1 MINUTE)	
	C	7000VAC(1分間)(1 MINUTE)	
INSULATION RESISTANCE 絶縁低抗	5000MΩ MIN (AT 500VDC)		

	CONTACT SIZE コンタクトサイズ	WIRE 電線 AWG No.	mm
APPLICABLE WIRE SIZE 適用電線	#16	#16MAX	1.25㎟MAX
	#12	#12MAX	3.5㎟MAX
	# 8	# 8MAX	8㎟MAX
	# 4	# 4MAX	22㎟MAX
	# 0	# 0MAX	50㎟MAX

コネクタ全体に流せる電流の総容量は下記の計算式にて算出下さい。
TOTAL CURRENT CAPACITY ALLOWABLE TO BE USED IN THIS CONNECTOR SHALL BE CALCULATED BY THE FOLLOWING FORMULA:

① MORE THAN 15 CONTACTS: 15極以上の場合
TOTAL CURRENT CAPACITY = RATED CURRENT (IN CASE OF INSERT ASSEMBLED WITH CONTACTS) X NUMBER OF CONTACTS X 20%
総容量=定格電流(インサートに組込んだ場合)×極数×20%

② LESS THAN 15 CONTACTS: 15極以下の場合
TATAL CURRENT CAPACITY = RATED CURRENT (IN CASE OF INSERT ASSEMBLED WITH CONTACTS) XNUMBER OF CONTACTS XLAPSE RASE (%)
総容量=定格電流(インサートに組込んだ場合)×極数×減率(%)

NO. OF CONTACTS 極数	LAPSE RATE (%) 減率(%)	NO. OF CONTACTS 極数	LAPSE RATE (%) 減率(%)
1	100	8	60
2	94.3	9	54.3
3	88.6	10	48.6
4	82.9	11	42.9
5	77.1	12	37.1
6	71.4	13	31.4
7	65.7	14	25.7

INSERT ROTATED POSITION (ANGLE)
インサート回転位置(角度)

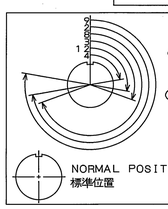
CONTACT SIZE シェルサイズ	INSERT ARRANGEMENT インサート配列	CONTACT COMPOSITION コンタクト構成 NO. OF CONTACTS	SIZE	RATED VOLTAGE 定格電圧 D.W.VOLTAGE 耐電圧	ROTATED ANGLE 回転角度 W	X	Y	Z
10SL	10SL-3	3	#16	INST	——	——	——	——
	10SL-4	2	#16	INST	——	——	——	——
12S	12S-3	2	#16	A	70	145	215	290
14S	14S-2	4	#16	INST	——	120	240	——
	14S-5	5	#16	INST	——	110	——	——
	14S-6	6	#16	INST	——	——	——	——
	14S-7	3	#16	A	90	180	270	——
	14S-9	2	#16	A	70	145	215	290
16	16-10	3	#12	A	90	180	270	——
16S	16S-1	7	#16	A	80	——	——	280
	16S-4	2	#16	D	35	110	250	325
	16S-5	3	#16	A	70	145	215	290
	16S-8	5	#16	A	——	170	265	——
18	18-1	10	#16	A(B,C,F,G) INST (OTHERS)	70	145	215	290
	18-3	2	#12	D	35	110	250	325
	18-8	8	#12,#16	A	70	——	——	290
	18-10	4	#12	A	——	120	240	——
	18-11	5	#12	A	——	170	265	——
	18-12	6	#16	A	80	——	——	280
	18-16	1	#12	C	——	——	——	——
	18-21	3	#12	A	——	——	——	——
20	20-4	4	#12	D	45	110	250	——
	20-15	7	#12	A	80	——	——	280
	20-16	9	#12,#16	A	80	110	250	280
	20-17	6	#12,#16	A	90	180	270	——
	20-18	9	#12,#16	A	35	110	250	325
	20-23	2	#8	A	35	110	250	325
	20-27	14	#16	A	35	110	250	325
	20-29	17	#16	A	80	——	——	280
22	22-2	3	#8	D	70	145	215	290
	22-14	19	#16	A	80	——	——	280
	22-19	14	#16	A	80	110	250	280
	22-22	4	#8	A	——	110	250	——
⚠	22-23	8	#12	D(H) A(OTHERS)	35	——	——	——
24	24-2	7	#12	D	80	——	——	280
	24-7	16	#12,#16	A	80	110	250	280
	24-10	7	#8	A	80	——	——	280
	24-11	9	#8,#12	A	35	110	250	325
	24-20	11	#12,#16	D	80	110	250	280
	24-28	24	#16	INST	80	110	250	280
28	28-6	3	#4	D	70	145	215	290
	28-10	7	#4,#8,#12	D(G) A(OTHERS)	80	110	250	280
	28-11	22	#12,#16	A	80	110	250	280
	28-12	26	#16	A	90	180	270	——
	28-20	14	#12,#16	A	80	110	250	280
	28-21	37	#16	A	80	110	250	280
32	32-7	35	#12,#16	INST (A,B,H,J) A(OTHERS)	80	125	235	280
	32-17	4	#4	D	45	110	250	——
	32A10	54	#16	A	(※1)			
36	36-3	6	#0,#12	D	70	145	215	290
	36-5	4	#0	A	——	120	240	——
	36-10	48	#16	A	80	125	235	280
	36A34	52	#16	A	(※2)			
48	48-5	100	#8,#12,#16	A	65	125	225	310

(※1)CONTACT ARRANGEMENT [IN CASE OF 32A10, WHICH HAS 54 CONTACTS]
(※1)コンタクト配列「32A10」の場合(54極)

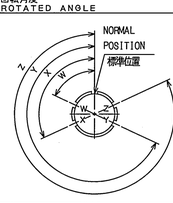
記号 MARK	4	12	3	5	20	8	13	2	9
回転角度 ROTATED ANGLE	80	100	110	——	——	250	——	260	280

(※2)CONTACT ARRANGEMENT [IN CASE OF 36A34, WHICH HAS 52 CONTACTS]
(※2)コンタクト配列「36A34」の場合(52極)

記号 MARK	4	12	3	5	20	8	13	2	9
回転角度 ROTATED ANGLE	80	100	110		220	250		260	280



(※1,2)ONLY FOR CONTACT ARRANGEMENT 32A10, CHANGED POSITION OF INSERT ROTATED AGAINST GUIDE KEY IS SHOWN.
(※1,2)コンタクト配列32A10及び36A34の場合のみガイドキィに対しインサートをある角度に回転させた変更位置で表します。



W, X, Y, AND Z IS DESIGNATED TO PRESENT THE ROTATED ANGLE OF SHELL GUIDE KEY AGAINST NORMAL POSITION.
REFER THIS TABLE AS THE POSSIBLE ANGLE IS DIFFERENT, DEPENDING ON INSERT ARRANGEMENT. HIS FIGURE OF INSERT ARRANGEMENT IS SHOWN FROM PIN-SIDE MATING FACE.
標準位置に対し、シェルのガイドキィをある角度に変更した位置をW,X,Y,Zの記号で表わします。
インサート配列によって変更可能な角度が異りますので、当表を参照のうえご指示ください。
尚、図はインサート配列をピン側嵌合面から見た場合を表わします。

符号 NO.	名称 DESCRIPTION	個数 QTY.	材料 MATERIAL	仕上 FINISH	備考 REMARKS
	仕様書(SPECIFICATION) JACS-50003 JAHL-50003				
	一般誤(GENERAL TOLERANCE) 寸法(DIMENSION) . ±0.8 .X ±0.4 .XX ±0.1 .XXX± 角度(ANGLES) X° ± X°X' ±				

第1版(ORIGINAL DATE)	2.Mar.2005	尺度(SCALE) ——	シリーズ(SERIES) N/MS
製図 DR.	——	名称(TITLE) N/MS CONNECTOR INSERT ARRANGEMENT N/MSコネクタ インサート配列	
担当 CHK.	T.SUZUKI		
査閲 APPD.	E.MATSUMOTO		
承認 APPD.	M.MAJIME	質量(MASS) ——	

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