Crimp contacts

Contact	Contact		IIL-DTL-38999 qualified contacts			
size	type	Part number	Profile and co	lor code		
#26	Pin	-				
	Socket	-				
#22D	Pin	M39029/58 360		Black / Blue / Orange		
	Socket	M39029/56 348		Grey / Yellow / Orange		
#20	Pin	M39029/58 363		Orange / Blue / Orange		
0	Socket	M39029/56 351		Brown / Green / Orange		
#16	Pin	M39029/58 364		Yellow / Blue / Orange		
"10	Socket	M39029/56 352		Red / Green / Orange		
#16 Coax	Pin	M39029/76 424		Yellow / Red / Yellow		
#10 COAX	Socket	M39029/77 428		Grey / Red / Yellow		
#12	Pin	M39029/58 365		Green / Blue / Orange		
#12	Socket	M39029/56 353		Orange / Green / Orange		
	Pin	M39029/102 558				
#12 C	Socket	M39029/103 559				
#12 Coax	Pin	M39029/28 211				
	Socket	M39029/75 416				
#40 D	Pin	M39029/58 528				
#10 Power	Socket	M39029/56 527				
	Pin	-				
	Socket	-				
	Pin	-				
#8 Power	Socket	-				
	_	-				
	Boot	-				
	Reductor	-				
	Pin	M39029/60 367				
#8 Coax	Socket	M39029/59 366				
	Boot	-				
#8	Pin	M39029/90 529				
Concentric	Socket	M39029/91 530				
Twinax *	Boot	-				
	Pin	-				
	Socket	-				
	Pin	-				
#4 Power	Socket	-				
		-				
	Boot	-				
	Reductor	-				
#4 D	Pin	-				
#4 Power with reduced	Socket	_				
barrel	Boot	_				
		1	I			

Souriau contacts	Souriau contacts (without color code)						
Part number	Information						
8599-0297							
8599-0298							
8599-0702 JJ							
8599-0706 900							
8599-0703 SA							
8599-0707 900							
8599-0704 MJ							
8599-0708 900							
8377-0708 700							
-							
- 0500 0705 MJ							
8599-0705 MJ							
8599-0709 900							
-							
-							
-							
-							
-							
-							
8599-7544 **							
8599-7541 **							
8599-7580							
8599-7581							
8599-4542	For wire #8						
8599-4547	For wire #10						
8599-7645	For wire #10						
-							
-							
8590-4571							
-							
-							
8590-4571							
8599-7598 900 ***	For wire						
8599-7599 900 ***	25 mm ²						
8599-7534	For wire						
8599-7535	21.15 mm ²						
8599-4594	For wire 16 mm ²						
8599-4593	For wire 10 mm ²						
8400-2352A	For wire 10 mm ²						
8599-7528 900	Mating part #4						
8599-7529 900	/ Barrel #6						
8599-4593							

^{*} Concentric Twinax = Triax

** JVS only

*** Not included in connector Part number. Must be ordered separately

Crimp contacts

Ctt	C t	Combont Ø	Conductor section AWG Condu		Conductor	section mm²	External Ø over insulator	
Contact size	Contact type	Contact Ø	Min	Max	Min	Max	Min	Max
#26	Pin	0.50	30	24	0.055	0.215	0.60	0.83
	Socket							
#22D	Pin	0.76	26	22	0.12	0.34	0.76	1.37
	Socket							
#20	Pin	1.00	24	20	0.21	0.60	1.02	2.11
	Socket							
#16	Pin		20	16	0.60	1.34	1.65	2.77
	Socket	1.60		DC.	174			
#16 Coax	Pin				174 179		1.65	2.60
	Socket				316	I		
#12	Pin		14	12	1.91	3.18	2.46	3.61
	Socket							
	Pin	2.40		DC.	174			
#12 Coax	Socket				179		2.40	2.60
	Pin			RG				
	Socket							
#10 Power	Pin	3.20		Please c	onsult us		_	2.95
	Socket				I			
	Pin							
			-	8	-	8.98	-	_
	Socket							
#8 Power **								
	Boot	3.64	-	-	-	-	4.50	6.50
			-	-	-	-	2.50	4
	Reductor		-	-	-	-	-	-
	Pin							
#8 Coax	Socket			RG 18	30 A/U		-	2.80
	Boot							
#8	Pin			0,76MIL-C1 FILECA F	7/176 00002 =.2703/14			
Concentric Twinax *	Socket	5.50		RAYCHEM CH	EMINAX 10612		3.15	3.40
TTTTTT	Boot			FILOTEX M	17/176 00002			
	Pin		_	3	_	25	-	_
	Socket							
	Pin		5	4	16	21.15	-	_
#4 Power **	Socket Available for						,	
	Boot 8599-7534 and 7535	5.74	-	-	-	-	6.35	7.50
	contacts		-	-	-	-	4	5.80
	Reductor		-	-	-	-	-	-
#4 Power	Pin			6	13	3.3	-	_
with reduced barrel	Socket							
Dario	Boot		-	-	-	-	4	5.80

^{*} Concentric Twinax = Triax ** For more information, please see p.117

Straight PC tail contacts

Contact size	Contact type	PC tail type	Part number	Profile
#26	Pin		8599-0118A	-
	Pin	L	8599-0720 900	
	Pin	М	8599-8028 900	-
	Pin	С	8599-0730 900	
#22D	Pin	S	8599-0796 900	
	Socket	L	8599-0721 900	
	Socket	С	8599-0731 900	
	Socket	S	8599-0797 900	
	Pin	М	8599-0658 JJ	-
	Socket	М	8599-0759 900	-
#20	Pin	С	8599-0724 900	
#20	Socket	С	8599-0725 900	
	Pin	L	8599-0771 900	-
	Socket	L	8599-0772 900	-
447	Pin	С	8599-0726 900	
#16	Socket	С	8599-0727 900	
Coax #16	Pin	С	8599-1000A 900	000
#4.2	Pin	С	8599-7929 900	-
#12	Socket	С	8599-7932 900	-

S: Specific PC tail L: Long PC tail M: Medium PC tail C: Short PC tail

Note: PC tail contacts without shoulder also available. Please see page 100.

Coax contacts #12

Designation	Part number
Coax socket solder contact #12	THA1-0151A
Coax pin solder contact#12	THA1-0152A
Coax pin crimp contact #12	THA1-0155A
Coax socket crimp contact #12	THA1-0156A

Solder cup

Contact size	Contact type	Part number
#22D	Pin	8599-0750 900
#20	Pin	8599-0077A 900
#16	Pin	8599-7482A 900
#12	Socket	8599-7485A 900

For other contacts type please consult us.

Crimp contacts: 1500 mating

Contact	MIL-DTL-38999 contacts						
size	Contact type	Part number	Color code				
#22D	Pin (H)	M39029/107 620	Blue / Red / Black				
#220	Socket (J)	M39029/106 614	Blue / Brown / Yellow				
#20	Pin (H)	M39029/107 621	Blue / Red / Brown				
#20	Socket (J)	M39029/106 615	Blue / Brown / Green				
#16	Pin (H)	M39029/107 622	Blue / Red / Red				
#10	Socket (J)	M39029/106 616	Blue / Brown / Blue				
#12	Pin (H)	M39029/107 623	Blue / Red / Orange				
#12	Socket (J)	M39029/106 617	Blue / Brown / Gray				

Wire wrap contacts

Contact size	Contact type	Part number	Contact Ø (mm)	Profile	(mm)
#22D	Pin	8599-0790 JJ	0.76		0.86
#20	Pin	8599-0791 900	1		0.86

Quadrax #8 contacts

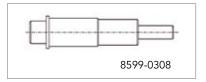
Contact type	Version	Souriau Part Number	Cross Norm	T°	Impedance	Sealing	Release
	PCB mount	ETH1-1237A	-	125°C	100Ω		
Pin	PCB mount	ETH1-1501A	-	125°C	150Ω	150Ω 100Ω 150Ω Sealed	D
Pin	C=:====	ETH1-1345A	EN3155-074	20000	100Ω		
	Crimp	ETH1-1503A	-	200°C	150Ω		
	PCB mount	ETH1-1238A	-	12500	100Ω	Sealed	Rear
Socket	PCB mount	ETH1-1502A	-	125°C	150Ω		
Socket	C=:====	ETH1-1346A	EN3155-075	200°C	100Ω		
	Crimp	ETH1-1504A	-	200 C	150Ω		

Thermocouple contacts

Contact	Contact Contact Souriau part		MIL	Ø	Wire section				Ø Over						
size	size type num	numbers (wit- hout color code)	Part numbers	Profile and color code	Contact (mm)	Awg		mm²		(mm)					
		nout color code,	Part numbers	Profile and color code	(11111)	min	max	min	max	min	max				
#22D	Pin	-	M39029/87-472	Red / Violet / Yellow	0.75										
Chromel	Socket	-	M39029/88-484	Yellow / Grey / Yellow			0.005	0.34	0.7/	1 27					
#22D	Pin	-	M39029/87-471	Brown / Violet / Yellow	0.75	28	22	0.095	0.34	0.76	1.37				
Alumel	Socket	-	M39029/88-483	Orange / Grey / Yellow											
#20	Pin	8599-0749 900	8599-0949 900	Blue / Violet / Yellow			1 20		0.6	1.02					
Chromel	Socket	8599-0753 900	8599-0953 900	Grey / Grey / Yellow	1	24		0.21			2.11				
#20	Pin	8599-0761 900	8599-0961 900	Green / Violet / Yellow							2.11				
Alumel	Socket	8599-0765 900	8599-0965 900	Violet / Grey / Yellow											

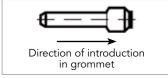
Dummy contacts

Size	Part number
#16	8599-6A016001A
#8	8599-0308
#4	8599-0310



Filler plugs

	Filler plugs						
Contact size	MS Part number (Rev. N)	Souriau Part number	Color				
#22D	MS27488-22-2	8660-212	Black				
#20	MS27488-20-2	8522-389A	Red				
#16	MS27488-16-2	8522-390A	Green				
#12	MS27488-12-2	8522-391A	Orange				

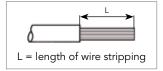


These filler plugs are installed at the rear of unwired contact to maintain connector sealing.

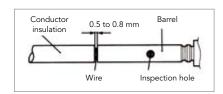
Wiring instruction

Cable preparation and wire stripping

Contact size	#26	#22D	#20	#16	#12	#8	#4
L		4		6		1	2



Insertion of wire in contact barrel



When inserting the stripped wire into the contact barrel check that no strands are left outside and that the wire is visible through the wire inspection hole in the barrel.

- Slide any accessories over wire strands before carrying out the following operations.
- Contacts are inserted and extracted from the rear of the connector.

Insertion of the contacts

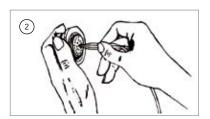
1 - Engage the crimp cable / contact asembly into the longitudinal slot of the plastic tool (coloured tip). Slide the tool down the cable until the tip of the tool abuts the contact retention shoulder.



1 - Engage the appropriate cable into the longitudinal slot of the tool with the white tip towards connector.



2 - Introduce the contact into the required contact cavity in the insulator, pushing tool axialy, until the contact snaps into position in clip.

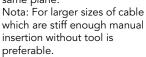


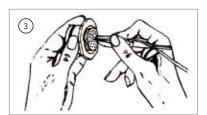
2 - Slide the tool down towards the contact. Insert the tool in the insulator until it abuts the contact shoulder.

Extraction of the contacts

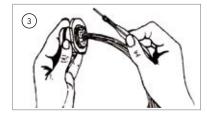


3 - Withdraw the tool from rear. Check that contact is firmly locked by pulling wire gently. When connector is fully loaded, check the position of contact tips. They should all be in the same plane.





3 - Holding the tool-contact and cable assembly together, remove them simultaneously.



Tooling

Crimping tools

Contact	Contact	Plier M22520/1-01 type Turret Part number		Plier M22520/2-01 (Souriau 8476-01) Locator Part number		Plier M300BT	Plier * M22520/23-01	
size	type					Locator	Turret	Locator
		Norm	Souriau	Norm	Souriau	Part number	Part number	Part number
#24	Pin	-	-	-	8599-0397	-	-	-
#26	Socket	-	-	-	8599-0398	-	-	-
"225	Pin	-	-	M22520/2-09	8476-09	-	-	-
#22D	Socket	-	-	M22520/2-07	8476-07	-	-	-
"00	Pin	M22520/1-04	8365-04	M22520/2-10	8476-10	-	-	-
#20	Socket				0470-10	-	-	-
114.7	Pin		02/5.04	-	-	-	-	-
#16	Socket	M22520/1-04	8365-04	-	-	-	-	-
#40	Pin	M22F20/4 04	02/5 04	-	-	-	-	-
#12	Socket	M22520/1-04	8365-04	-	-	-	-	-
#0 D	Pin	-	-	-	-	CD 502	MARCE 00 (02, 02	0500 0704
#8 Power	Socket	-	-	-	-	SP 593	M22520/23-02	8599-9601
"4 D	pin	-	-	-	-	-	M22520/22 04	NA00500/00 44
#4 Power	Socket	-	-	-	-	-	M22520/23-04	M22520/23-11

Contact size	Contact type	Plier M22520/2-01 (Souriau 8476-01)	Plier M22520/31-01	Plier M22520/4-01	Plier M22520/5-01	
		Locator Part Number	Locator Part number	Locator Part Number	Die set Part Number	
#12 Coax	Inner	-	-	-	M00500/5 00	
M39029/102-558 M39029/103-559	Outer	-	-	-	M22520/5-03	
#12 Coax	Inner	M22520/2-34	-			
M39029/28-211 M39029/75-416	Outer	-	M22520/31-02	-	-	
W4.4.C	Inner	M22520/2-35	-	-	-	
#16 Coax	Outer	-	-	M22520/4-02	-	
"" • • • • • • • • • • • • • • • • • •	Inner	M22520/2-31	-	-	-	
#8 Coax	Outer	-	-	-	M22520/5-05 closure B	
#8 Concentric	Inner	K709	-	-	-	
Twinax	Middle	-	-	-	Y631 closure B	
(= Triax)	Ferrule	-	-	-	Y631 closure A	

* Pneumatic plier Note: for the #10 contact's plier and locator, please consult us.

Insertion & extraction tools

Contact	Material	Part n	umber	Color		
size	iviateriai	MIL standard	Souriau	Insertion	Extraction	
#26	Plastic	-	8599-0399 900	Black	White	
#22D	Plastic	M81969/14-01	-	Green	White	
#20	Plastic	M81969/14-10	-	Red	Orange	
#16	Plastic	M81969/14-03	-	Blue	White	
#12	Plastic	M81969/14-04	-	Yellow	White	
#10	Plastic	M81969/14-05	-	Grey	-	
#8	Plastic	M81969/14-12	-	-	Green	
#0	Metallic	-	8660-197	-	-	
#4	Plastic	M81969/14-07	-	-	Blue	
#4	Metallic	-	8533-8175	-	-	

Backshell tightening tools

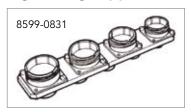


Backshell tightening pliers, part number: 8498-03 Square jaws (order 2 jaws), part number: 8500-1015

Tightening of rear accessories:

Shell size	9	11	13	15	17	19	21	23	25
Max torque in m/daN			0.	62				1.24	

Tightening support



Part number: 8599-0831 This tool is made up of dummy receptacles housings of all 9 sizes for all key polarisation, and secures free connectors during wiring and fitting of rear accessories.

Slackening tools



Strap clamp, part number: 8498-04 Spare strap, part number: 8498-103

Accessories

Plastic protective caps*

Shell size	Caps for receptacles	Caps for plugs	Caps for composite plugs only (J & M)	Antistatic caps for receptacles	Antistatic caps for plugs	Antistatic caps for composite plugs only (J & M)
9 (A)	MS90376-10R	8500-5587 A	MS90376-12R	MS90376-10RF	8500-5587N	8500-5587N
11 (B)	MS90376-12R	8500-5588A	8500-5598	MS90376-12RF	70198N	8500-5598N
13 (C)	MS90376-14R	8500-5600	8500-5600	MS90376-14RF	8500-5600N	8500-5600N
15 (D)	MS90376-16R	8500-5601	8500-5601	MS90376-16RF	8500-5601N	8500-5601N
17 (E)	MS90376-19R	8500-5602	8500-5602	MS90376-18RF	8500-5602N	8500-5602N
19 (F)	MS90376-20R	8500-5592 A	8500-5592 A	MS90376-20RF	8500-5592N	8500-5592N
21 (G)	MS90376-22R	8500-5593 A	8500-5593 A	MS90376-22RF	8500-5593N	8500-5593N
23 (H)	MS90376-24R	8500-5593 A	MS90376-28R	MS90376-24RF	8500-5593N	70472N
25 (J)	8599-0029	J599ABC6009A00	J599ABC6009A00	8500-5593N	MS90376-28RF	MS90376-28RF

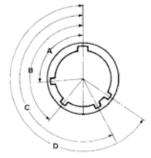
^{*} Excepted 8D composite version (X): supplied without cap

Gaskets

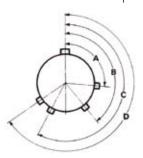
Shell size	Gasket for receptacles Type 0* (ordered separately)	O ring for receptacle Type 7
9 (A)	8599-5541	AS3582-019
11 (B)	8599-5542	AS3582-022
13 (C)	8599-5543	AS3582-024
15 (D)	8599-5544	AS3582-026
17 (E)	8599-5545	AS3582-028
19 (F)	8599-5546	AS3582-128
21 (G)	8599-5547	AS3582-130
23 (H)	8599-5548	AS3582-132
25 (J)	8599-5549	AS3582-134

^{*} For front mounting

Orientations



Viewed from front face of receptacle

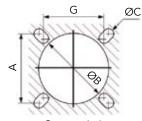


Viewed from front face of plug

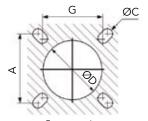
Shell size	Angles	N	Α	В	С	D	E	Т	V
9 (A)	A° B° C° D°	105 140 215 265	102 132 248 320	80 118 230 312	35 140 205 275	64 155 234 304	91 131 197 240	-	-
11 (B) 15 (D)	A° B° C° D°	95 141 208 236	113 156 182 292	90 145 195 252	53 156 220 255	119 146 176 298	51 141 184 242	-	-
13 (C)	A° B° C° D°	95 141 208 236	113 156 182 292	90 145 195 252	53 156 220 255	119 146 176 298	51 141 184 242	70 136 218 261	75 138 224 268
17 (E) 21 (G)	A° B° C° D°	80 142 196 293	135 170 200 310	49 169 200 244	66 140 200 257	62 145 180 280	79 153 197 272	58 162 188 316	85 150 191 307
19 (F) 23 (H) 25 (J)	A° B° C° D°	80 142 196 293	135 170 200 310	49 169 200 244	66 140 200 257	62 145 180 280	79 153 197 272	-	-

Panel cut-out

Square flange receptacle (Type 0)

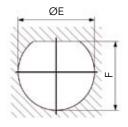


Rear mounting*



Front mounting





Shell size	Α	G	B min.	C ±0.13	D min.	E +0.25	F
9 (A)	18.26	15.09	16.66		13.11	17.78	17.02
11 (B)	20.62	18.26	20.22		15.88	20.96	19.59
13 (C)	23.01	20.62	23.42		19.05	25.65	24.26
15 (D)	24.61	23.01	26.59	3.25	23.01	28.83	27.56
17 (E)	26.97	24.61	30.96		25.81	32.01	30.73
19 (F)	29.36	26.97	32.94		28.98	35.18	33.91
21 (G)	31.75	29.36	36.12		32.16	38.35	37.08
23 (H)	34.93	31.75	39.29	3.91	34.93	41.53	40.26
25 (J)	38.10	34.94	42.47*		37.69	44.70	43.43

 $[\]star$ For Type 0 composite shell rear mounting: 43.77 mm.

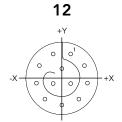
Type 0: front mounting = 3.2 mm, rear mounting = 2.5 mmMax. thickness panel for receptacle:

Type 7: 3.2 mm

Coordinates for straight PC tail terminations Viewed from front face of male insulator

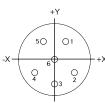
Hole sizes: 1mm min. (#22 and #20 contacts) and 1.3mm min. (#16 contact) coordinates in mm.

09 / A



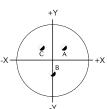
Ctc	Х	Y	Ctc	х	Y
1	+0.92	+2.54	7	-2.66	-0.47
2	+2.34	+1.35	8	-2.34	+1.35
3	+2.66	-0.47	9	-0.92	+2.54
4	+1.74	-2.07	10	0.00	+1.03
5	0.00	-2.70	11	+0.89	-0.51
6	-1.74	-2.07	12	-0.89	-0.51

35



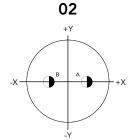
Ctc	Х	Y
1	+1.14	+1.98
2	+1.98	-1.14
3	0.00	-2.29
4	+1.98	-1.14
5	+1.14	+1.98
6	0.00	0.00

98

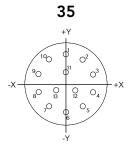


Ctc	х	Y		
Α	+1.65	+0.97		
В	0.00	-1.90		
С	-1.65	+0.97		

11 / B



Ctc	Х	Υ
Α	0.00	+2.41
В	0.00	-2.41

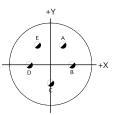


04

Ctc	х	Υ
Α	+1.65	+1.65
В	+1.65	-1.65
С	-1.65	-1.65
D	-1.65	+1.65

Ctc	х	Y	Ctc	Х	Y	Ctc	Х	Y
1	0.00	+3.71	6	0.00	-3.71	10	-2.16	+3.00
2	+2.16	+3.00	7	-2.16	-3.00	11	0	+1.42
3	+3.51	+1.14	8	-3.51	-1.14	12	+1.24	-0.89
4	+3.51	-1.14	9	-3.51	+1.14	13	-1.24	-0.89
5	+2.16	-3.00						

05

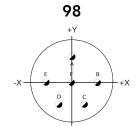


Ctc	Х	Υ
Α	+1.65	+1.42
В	+2.86	-1.65
С	0.00	-3.30
D	-2.86	-1.65
Е	-1.65	+1.42

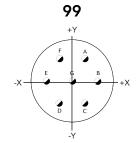
+Y
-X

Ctc	х	Y	Ctc	х	Υ
1	+1.69	+3.79	14	0.00	+3.50
2	+3.09	+2.77	15	+1.70	+1.76
3	+3.95	+1.28	16	+2.55	+0.29
4	+4.13	-0.44	17	+1.70	-1.18
5	+3.58	-2.10	18	+0.85	-2.65
6	+2.40	-3.37	19	-0.85	-2.65
7	0.00	-4.13	20	-1.70	-1.18
8	-2.40	-3.37	21	-2.55	+0.29
9	-3.58	-2.10	22	-1.70	+1.76
10	-4.13	-0.44	23	0.00	+1.76
11	-3.95	+1.28	24	+0.85	+0.29
12	-3.09	+2.77	25	0.00	-1.18
13	-1.69	+3.79	26	-0.85	+0.29

11 / B



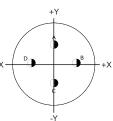
Ctc	х	Υ
Α	0.00	+3.30
В	+3.30	0.00
С	+1.65	-2.87
D	-1.65	-2.87
E	-3.30	0.00
F	0.00	0.00



Ctc	Х	Y
Α	+1.65	+2.85
В	+3.30	0.00
С	+1.65	-2.87
D	-1.65	-2.87
E	-3.30	0.00
F	-1.65	+2.87
G	0.00	0.00

13 / C

04



G	A B
-X	+X

80

	+Y
-X 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

35

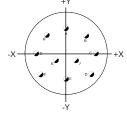
	+Y	
-X-	+X	

43

Ctc	Х	Y
Α	0.00	+3.81
В	+3.71	+0.89
С	0.00	-2.11
D	-3.71	+0.89

Ctc	Х	Υ
Α	+1.65	+3.99
В	+4.32	0.00
С	+3.05	-3.05
D	0.00	-4.32
E	-3.05	-3.05
F	-4.32	0.00
G	-1.65	+3.99
Н	0.00	+1.12

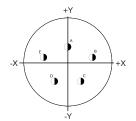
Ctc	Х	Y	Ctc	Х	Y
1	+1.14	+5.00	12	-4.62	+2.24
2	+3.20	+4.01	13	-3.20	+4.01
3	+4.62	+2.24	14	-1.14	+5.00
4	+5.16	0.00	15	+1.14	+2.72
5	+4.62	-2.24	16	+2.97	+0.66
6	+3.20	-4.01	17	+2.36	-1.91
7	+1.14	-5.00	18	0.00	-3.05
8	-1.14	-5.00	19	-2.36	-1.91
9	-3.20	-4.01	20	-2.97	+0.66
10	-4.62	-2.24	21	-1.14	+2.72
11	-5.16	0.00	22	0.00	-0.76



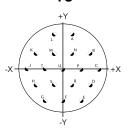
Ctc	Х	Υ	Ctc	Х	Υ
Α	0.00	+4.95	F	-4.17	-2.67
В	+3.18	+3.81	G	-4.90	+0.76
С	+4.90	+0.76	Н	-3.18	+3.81
D	+4.17	-2.67	J	+1.65	-0.38
E	0.00	-3.43	К	-1.65	-0.38

Ctc	Х	Υ	Ctc	Х	Υ
1	+1.80	+5.54	23	+3.92	+1.27
2	-1.80	+5.54	24	+4.10	-0.43
3	+3.42	+4.71	25	+3.57	-2.06
4	+4.71	+3.42	26	+1.99	-2.74
5	+5.54	+1.80	27	+0.86	-4.03
6	+5.82	0.00	28	-0.86	-4.03
7	+5.54	-1.80	29	-1.99	-2.74
8	+4.71	-3.42	30	-3.57	-2.06
9	+3.42	-4.71	31	-4.10	-0.43
10	+1.80	-5.54	32	-3.92	+1.27
11	0.00	-5.82	33	-2.54	+2.28
12	-1.80	-5.54	34	-1.68	+3.76
13	-3.42	-4.71	35	0.00	+2.42
14	-4.71	-3.42	36	+1.21	+1.21
15	-5.54	-1.80	37	+2.42	0.00
16	-5.82	0.00	38	+1.21	-1.21
17	-5.54	+1.80	39	0.00	-2.42
18	-4.71	+3.42	40	-1.21	-1.21
19	-3.42	+4.71	41	-2.42	0.00
20	0.00	+4.12	42	-1.21	+1.21
21	+1.68	+3.76	43	0.00	0.00
22	+2.54	+2.28			

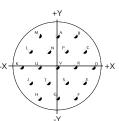
15 / D



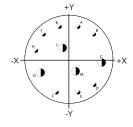
Ctc	X Y	
Α	0	+2.54
В	+4.42	+0.61
С	+2.39	+3.76
D	-2.39	-3.76
E	-4.42	+0.61



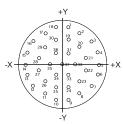
Ctc	х	Y	Ctc	х	Y
Α	+1.65	+6.40	K	-4.95	+2.87
В	+4.95	+2.87	L	-1.65	+6.40
С	+6.60	0.00	М	-1.65	+2.87
D	+4.95	-2.87	N	+1.65	+2.87
E	+3.30	-5.72	Р	+3.30	0.00
F	0.00	-5.72	R	+1.65	-2.87
G	-3.30	-5.72	S	-1.65	-2.87
Н	-4.95	-2.87	Т	-3.30	0.00
J	-6.60	0.00	U	0.00	0.00



Ctc	х	Y	Ctc	х	Y
Α	0.00	+5.72	L	-4.95	+2.87
В	+3.30	+5.72	М	-3.30	+5.72
С	+4.95	+2.87	N	-1.65	+2.87
D	+6.60	0.00	Р	+1.65	+2.87
E	+4.95	-2.87	R	+3.30	0.00
F	+3.30	-5.72	S	+1.65	-2.87
G	0.00	-5.72	Т	-1.65	-2.87
Н	-3.30	-5.72	U	-3.30	0.00
J	-4.95	-2.87	V	0.00	0.00
К	-6.60	0.00			



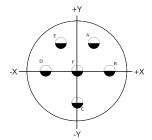
Ctc	Х	Y
Α	+1.65	+5.94
В	+4.52	+4.52
С	+5.84	-0.58
D	+4.52	-4.52
Е	+1.65	-5.94
F	-2.26	-5.97
G	-5.26	-2.41
Н	-5.94	+1.65
J	-4.52	+4.52
K	-1.65	+5.94
L	-1.19	+2.06
М	+1.19	-2.06



Ctc	Х	Y	Ctc	Х	Y
1	+1.14	+6.65	20	+3.12	+3.02
2	+3.12	+5.51	21	+4.32	+1.02
3	+5.36	+4.06	22	+4.32	-1.27
4	+6.45	+2.03	23	+3.12	-3.23
5	+6.75	-0.25	24	+1.14	-4.37
6	+6.27	-2.49	25	-1.14	-4.37
7	+5.08	-4.45	26	-3.12	-3.23
8	+3.30	-5.89	27	-4.32	-1.27
9	+1.14	-6.65	28	-4.32	+1.02
10	-1.14	-6.65	29	-3.12	+3.02
11	-3.30	-5.89	30	-1.14	+4.37
12	-5.08	-4.45	31	+1.14	+1.88
13	-6.27	-2.49	32	+2.29	-0.10
14	-6.76	-0.25	33	+1.14	-2.08
15	-6.45	+2.03	34	-1.14	-2.08
16	-5.36	+4.06	35	-2.29	-0.10
17	-3.12	+5.51	36	-1.14	+1.88
18	-1.14	+6.65	37	0.00	-0.10
19	+1.14	+4.37			

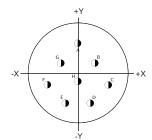
17 / E

06



Ctc	х	Υ
Α	+3.07	+5.31
В	+6.12	0.00
С	0.00	-6.12
D	-6.12	0.00
E	-3.07	+5.31
F	0.00	0.00

80



Ctc	х	Y
Α	0.00	+5.99
В	+3.25	+2.18
С	+5.84	-1.98
D	+2.39	-5.49
E	-2.39	-5.49
F	-5.84	-1.98
G	-3.25	+2.18
Н	0.00	-1.32

Ctc

41

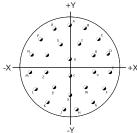
+3.96

+4.47

+2.18 -0.10 -2.39 -4.67 -6.96 +5.61 +3.33 +1.04 -1.24 -3.53 -5.82 +2.18 -0.10 2-.39

+8.36

26



-Y			S	-1.78	+4.50
			Т	+1.78	+4.50
Ctc	Х	Y	U	+4.45	+2.39
Α	0.00	+8.15	V	+4.53	-0.91
В	+3.33	+7.44	W	+3.02	-3.84
С	+6.07	+5.44	х	0.00	-5.16
D	+7.75	+2.51	Y	-3.02	-3.84
E	+8.10	-0.86	Z	-4.53	-0.91
F	+7.06	-4.09	а	-4.45	+2.39
G	+4.80	-6.60	b	0.00	+1.65
Н	+1.70	-7.98	С	0.00	-1.65

Ctc

Κ

N

Р

-1.70

-4.80

-7.06 -8.10

-7.75

-6.07

-3.33

-7.98

-6.60 -4.09

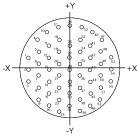
-0.86

+2.51

+5.44

+7.44

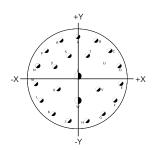
35



		-	Υ			26	0.00	+4.47	42	+3.96	Г
						27	0.00	+2.18	43	+3.96	
Ctc	Х	Y	Ctc	Х	Y	28	0.00	-0.10	44	+3.96	
1	-7.92	+2.18	13	-3.96	-0.10	29	0.00	-2.39	45	+3.96	Г
2	-7.92	-0.10	14	-3.96	-2.39	30	0.00	+4.67	46	+3.96	Г
3	-7.92	-2.39	15	-3.96	-4.67	31	0.00	-6.96	47	+6.15	Г
4	-6.15	+5.61	16	-3.96	-6.96	32	+2.26	+8.03	48	+5.94	Г
5	-5.94	+3.33	17	-2.26	+8.03	33	+1.98	+5.61	49	+5.94	Г
6	-5.94	+1.04	18	-1.98	+5.61	34	+1.98	+3.33	50	+5.94	Γ
7	-5.94	-1.24	19	-1.98	+3.33	35	+1.98	+1.04	51	+5.94	Г
8	-5.94	-3.53	20	-1.98	+1.04	36	+1.98	-1.24	52	+5.94	Г
9	-5.94	-5.82	21	-1.98	-1.24	37	+1.98	-3.53	53	+7.92	Г
10	-4.37	+7.09	22	-1.98	-3.53	38	+1.98	-5.82	54	+7.92	Г
11	-3.96	+4.47	23	-1.98	-5.82	39	+1.98	-8.10	55	+7.92	Г
12	-3.96	+2.18	24	-1.98	-8.10	40	+4.37	+7.09			_

25

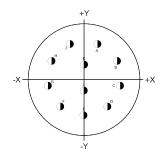
0.00



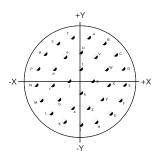
Ctc	Х	Y	Ctc	х	Y
Α	0.00	+8.15	N	-7.75	+2.51
В	+3.33	+7.44	Р	-6.07	+5.44
С	+6.07	+5.44	R	-3.33	+7.44
D	+7.75	+2.51	S	-1.78	+4.50
E	+8.10	-0.86	Т	+1.78	+4.50
F	+7.06	-4.09	U	+4.45	+2.39
G	+4.80	-6.60	V	+3.81	-1.91
Н	+1.70	-7.98	w	0.00	-4.09
J	-1.70	-7.98	Х	-3.81	-1.91
К	-4.80	-6.60	Y	-4.45	+2.39
L	-7.06	-4.09	Z	0.00	+0.64
М	-8.10	-0.86			

19 / F

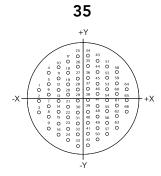
11



Ctc	х	Y		
Ctc	^	T		
Α	+2.67	+6.60		
В	+6.35	+3.35		
С	+6.99	-1.35		
D	+4.55	-5.46		
Е	0.00	-7.14		
F	-4.55	-5.46		
G	-6.99	-1.35		
Н	-6.35	+3.35		
J	-2.67	+6.60		
K	0.00	+2.67		
L	0.00	-2.34		

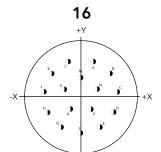


Ctc	Х	Υ	Ctc	Х	Υ
Α	+1.68	+8.97	Т	-1.68	+8.97
В	+4.80	+7.75	U	0.00	+5.84
С	+7.26	+5.51	V	+3.15	+4.90
D	+8.76	+2.49	W	+5.31	+2.41
Е	+9.07	-0.84	Х	+5.79	-0.84
F	+8.15	-4.06	Y	+4.42	-3.84
G	+6.15	-6.73	Z	+1.65	-5.61
Н	+3.30	-8.51	а	-1.65	-5.61
J	0.00	-9.12	b	-4.42	-3.84
Κ	-3.30	-8.51	С	-5.79	-0.84
L	-6.15	-6.73	d	-5.31	+2.41
М	-8.15	-4.06	е	-3.15	+4.90
N	-9.07	-0.84	f	0.00	+2.44
Р	-8.76	+2.49	g	+2.44	0.00
R	-7.26	+5.51	h	0.00	-2.44
S	-4.80	+7.75	j	-2.44	0.00

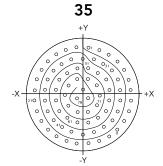


Ctc	Х	Υ	Ctc	Х	Y	Ctc	Х	Y	Ctc	Х	Υ	Ctc	Х	Y
1	-9.07	+2.29	15	-5.11	-4.57	28	-1.14	+2.29	41	+1.14	-6.86	54	+5.11	0.00
2	-9.07	+0.08	16	-5.11	-6.86	29	-1.14	0.00	42	+1.14	-9.14	55	+5.11	-2.29
3	-9.07	-2.29	17	-3.12	+8.00	30	-1.14	-2.29	43	+3.12	+8.00	56	+5.11	-4.57
4	-7.09	+5.72	18	+3.12	+5.72	31	-1.14	-4.57	44	+3.12	+5.72	57	+5.11	-6.86
5	-7.09	+3.43	19	-3.12	+3.43	32	-1.14	-6.86	45	+3.12	+3.43	58	+7.09	+5.72
6	-7.09	+1.14	20	-3.12	+1.14	33	-1.14	-9.14	46	+3.12	+1.14	59	+7.09	+3.43
7	-7.09	-1.14	21	-3.12	-1.14	34	+1.14	+9.14	47	+3.12	-1.14	60	+7.09	+1.14
8	-7.09	-3.43	22	-3.12	-3.43	35	+1.14	+6.86	48	+3.12	-3.43	61	+7.09	-1.14
9	-7.09	-5.72	23	-3.12	-5.72	36	+1.14	+4.57	49	+3.12	-5.72	62	+7.09	-3.43
10	-5.11	+6.86	24	-3.12	-8.00	37	+1.14	+2.29	50	+3.12	-8.00	63	+7.09	-5.72
11	-5.11	+4.57	25	-1.14	+9.14	38	+1.14	0.00	51	+5.11	+6.86	64	+9.07	+2.29
12	-5.11	+2.29	26	-1.14	+6.86	39	+1.14	-2.29	52	+5.11	+4.57	65	+9.07	0.00
13	-5.11	0.00	27	-1.14	+4.57	40	+1.14	-4.57	53	+5.11	+2.29	66	+9.07	-2.29
14	-5.11	-2.29												

21 / G



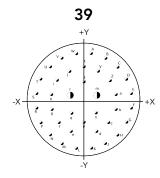
Ctc	Х	Υ	Ctc	Х	Υ
Α	+3.00	+8.18	J	-8.66	+0.91
В	+6.88	+5.36	K	-6.88	+5.36
С	+8.66	+0.91	L	-3.00	+8.18
D	+7.82	-3.81	М	0.00	+4.45
E	+4.62	-7.37	N	+3.91	+1.57
F	0.00	-8.71	Р	+2.39	-3.10
G	-4.62	-7.37	R	-2.39	-3.10
Н	-7.82	-3.81	S	-3.91	+1.57



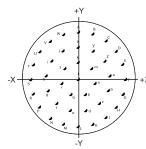
			21
Ctc	х	Y	22
1	+1.35	+10.82	23
2	+3.71	+10.26	24
3	+5.89	+9.19	25
4	+7.77	+7.67	26
5	+9.27	+5.77	27
6	+10.31	+3.58	28
7	+10.85	+1.22	29
8	+10.85	-1.22	30
9	+10.31	-3.58	31
10	+9.27	-5.77	32
11	+7.77	-7.67	33
12	+5.89	-9.19	34
13	+3.71	-10.26	35

Ctc	х	Y	Ctc	х	Y	Ctc
14	+1.35	-10.82	36	+7.90	-3.58	58
15	-1.35	-10.82	37	+6.55	-5.59	59
16	-3.71	-10.26	38	+4.67	-7.11	60
17	-5.89	-9.19	39	+2.49	-8.18	61
18	-7.77	-7.67	40	0.00	-8.81	62
19	-9.27	-5.77	41	-2.49	-8.18	63
20	-10.31	-3.58	42	-4.67	-7.11	64
21	-10.85	-1.22	43	-6.55	-5.59	65
22	-10.85	+1.22	44	-7.90	-3.58	66

			21	-10.85	-1.22	43	-6.55	-5.59	65	-5.28	+3.53
tc	х	Y	22	-10.85	+1.22	44	-7.90	-3.58	66	-3.40	+5.05
ı	+1.35	+10.82	23	-10.31	+3.58	45	-8.43	-1.22	67	-1.22	+3.71
2	+3.71	+10.26	24	-9.27	+5.77	46	-8.43	+1.22	68	+1.22	+3.71
3	+5.89	+9.19	25	-7.77	+7.67	47	-7.90	+3.58	69	+3.18	+2.29
ı	+7.77	+7.67	26	-5.89	+9.19	48	-6.55	+5.59	70	+3.94	0.00
5	+9.27	+5.77	27	-3.71	+10.26	49	-4.67	+7.11	71	+3.18	-2.29
5	+10.31	+3.58	28	-1.35	+10.82	50	-2.49	+8.18	72	+1.22	-3.71
,	+10.85	+1.22	29	0.00	+8.20	51	-1.22	+6.12	73	-1.22	-3.71
3	+10.85	-1.22	30	+2.49	+8.18	52	+1.22	+6.12	74	-3.18	-2.29
,	+10.31	-3.58	31	+4.67	+7.11	53	+3.40	+5.05	75	-3.94	0.00
0	+9.27	-5.77	32	+6.55	+5.59	54	+5.28	+3.53	76	-3.18	+2.29
1	+7.77	-7.67	33	+7.90	+3.58	55	+6.02	+1.22	77	0.00	+1.35
2	+5.89	-9.19	34	+8.43	+1.22	56	+6.02	-1.22	78	+1.22	-0.74
3	+3.71	-10.26	35	+8.43	-1.22	57	+5.28	-3.53	79	-1.22	-0.74



Ctc	Х	Υ	Ctc	Х	Υ	Ctc	х	Υ
A	+1.65	+10.44	Р	-9.42	-4.80	d	+2.84	-6.73
В	+4.80	+9.42	R	-10.44	-1.65	e	-2.84	-6.73
С	+7.47	+7.47	S	-10.44	+1.65	f	-5.51	-4.80
D	+9.42	+4.80	Т	-9.42	+4.80	g	-7.11	-1.88
Е	+10.44	+1.65	U	-7.47	+7.47	h	-7.11	+1.45
F	+10.44	-1.65	V	-4.80	+9.42	i	-5.89	+4.55
G	+9.42	-4.80	w	-1.65	+10.44	i	-3.20	+6.50
н	+7.47	-7.47	Х	0.00	+7.49	k	0.00	+4.17
J	+4.80	-9.42	Y	+3.20	+6.50	m	+2.90	+1.22
К	+1.65	-10.44	Z	+5.89	+4.55	n	+2.69	-2.72
L	-1.65	-10.44	а	+7.11	+1.45	р	0.00	-4.80
М	-4.80	-9.42	ь	+7.11	-1.88	q	-2.69	-2.72
N	-7.47	-7.47	С	+5.51	-4.80	r	-2.90	+1.22



Υ

+10.60

+10.09

+8.58

+6.23

+3.28

0.00

-3.28

-6.23

-8.58

-10.09

-10.60

Ctc

М

Ν

Р

R

S

Т

U

٧

Х

-3.26

-6.23

-8.58

-10.09

-10.60

-10.09

-8.58

-6.23

-3.28

0.00

+3.35

Ctc

С

D

Х

0.00

+3.28

+6.23

+8.58

+10.09

+10.60

+10.09

+8.58

+6.23

+3.28

0.00

41

	d	+1.73	-6.99
	е	-1.73	-6.99
	f	-4.78	-5.39
Y	g	-6.73	-2.55
-10.09	h	-7.15	+0.87
-8.58	i	-5.92	+4.09
-6.23	j	-3.35	+6.38
-3.28	k	0.00	+3.81
0.00	m	+2.98	+2.38
+3.28	n	+3.71	-0.85
+6.23	р	-1.66	-3.43
+8.58	q	+1.66	-3.43
+10.09	r	-3.71	-0.85
+7.20	s	-2.98	+2.38
+6.38	t	0.00	0.00

Ctc

z

Х

+5.92

+7.15 +6.73

+4.78

+4.09

+0.87

-2.55

-5.39

+3.40

+1.22

-1.22

-3.40 -5.28

-6.02

-6.02

-5.05

-6.12

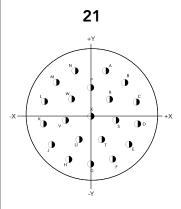
-6.12 -5.05

-3.53

-1.22

+1.22

23 / H



Ctc	х	Y
Α	+3.25	+9.78
В	+7.34	+7.24
С	+9.80	+3.12
D	+10.16	-1.65
Е	+8.33	-6.07
F	+4.65	-9.19
G	0.00	-10.31
Н	-4.65	-9.19
J	-8.33	-6.07
K	-10.16	-1.65
L	-9.80	+3.12
М	-7.34	+7.24
N	-3.25	+9.78
Р	0.00	+6.22
R	+4.06	+3.71
S	+5.44	-0.89
Т	+2.39	-4.93
U	-2.39	-4.93
٧	-5.44	-0.89
W	-4.06	+3.71
Х	0.00	0.00

Х

-8.23

-10.77

-12.52

-13.49

-13.49

-12.52

-10.77

R

s

Т

U

٧

W

Х

Υ

-10.80

-8.28

-5.21

-1.75

+1.75

+5.21

+8.28

Ctc

u

-7.90

-9.58

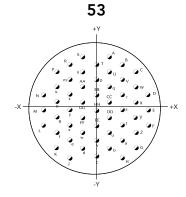
-10.46

-9.58

-7.90

-5.38

-2.18



Ctc	х	Y	Ctc	х	Y
Α	+2.84	+11.56	G	+8.53	-8.26
В	+5.72	+9.91	Н	+5.72	-10.41
С	+8.53	+8.26	J	-5.72	-10.41
D	+11.43	+3.30	K	-8.53	-8.26
E	+11.43	0.00	L	-11.43	-3.30
F	+11.43	-3.30	М	-11.43	0.00

Υ

-6.38

-3.35

0.00

+3.35

+6.38

+8.78

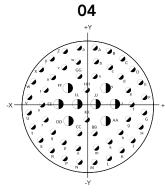
+10.08

	Ctc	х	Y	m	-5.72	+6.60
	N	-11.43	+3.30	n	-2.84	+8.26
	Р	-8.53	+8.26	р	0.00	+6.60
	R	-5.72	+9.91	q	+2.84	+4.95
	S	-2.84	+11.56	r	+5.72	+3.30
	Т	0.00	+9.91	s	+5.72	0.00
	U	+2.84	+8.26	t	+5.72	-3.30
	٧	+5.72	+6.60	u	+2.84	-4.95
	w	+8.53	+4.95	v	0.00	-6.60
	х	+8.53	+1.65	w	-2.84	-4.95
	Υ	+8.53	-1.65	x	-5.72	-3.30
	Z	+8.53	-4.95	у	-5.72	0.00
	а	+5.72	-6.60	z	-5.72	+3.30
	b	+2.84	-8.26	AA	-2.84	+4.95
	с	0.00	-9.91	ВВ	0.00	+3.30
1	d	-2.84	-8.26	СС	+2.84	+1.65

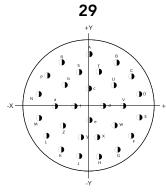
Ctc

						b	+2.84	-8.26	AA	-2.84	+4.95
С	Х	Y	Ctc	х	Y	С	0.00	-9.91	ВВ	0.00	+3.30
	+2.84	+11.56	G	+8.53	-8.26	d	-2.84	-8.26	СС	+2.84	+1.65
	+5.72	+9.91	Н	+5.72	-10.41	е	-5.72	-6.60	DD	+2.84	-1.65
	+8.53	+8.26	J	-5.72	-10.41	f	-8.53	-4.95	EE	0.00	-3.30
	+11.43	+3.30	K	-8.53	-8.26	g	-8.53	-1.65	FF	-2.84	-1.65
	+11.43	0.00	L	-11.43	-3.30	h	-8.53	+1.65	GG	-2.84	+1.65
	+11.43	-3.30	М	-11.43	0.00	k	-8.53	+4.95	НН	0.00	0.00

25 / J



	1 ~	DD (🔻 🗡		9 🔼	1						
	\f		BB C	~~~~/	,	Y	-8.23	+10.80	х	+1.75	+6.66
	\⁵ ∘	P	m k	* */		Z	-5.16	+12.57	у	+4.37	+3.78
	\R	₽ ₽		/		а	-1.75	+13.49	z	+6.55	0.00
		-Y	_			b	+2.18	+10.08	AA	+4.37	-3.78
						С	+5.38	+8.78	ВВ	+1.75	-6.66
						d	+7.90	+6.38	СС	-1.75	-6.66
Ctc	x	Y	Ctc	х	Y	е	+9.58	+3.35	DD	-4.37	-3.78
Α	+1.75	+13.49	Н	+12.52	-5.21	f	+10.46	0.00	EE	-6.55	0.00
В	+5.16	+12.57	J	+10.77	-8.28	g	+9.58	-3.35	FF	-4.37	-3.78
С	+8.23	+10.80	K	+8.23	-10.80	h	+7.90	-6.38	GG	-1.75	-6.66
D	+10.77	+8.28	L	+5.16	-12.57	k	+5.38	-8.78	нн	0.00	+3.35
Ε	+12.52	+5.21	М	+1.75	-13.49	m	+2.18	-10.08	IJ	+2.18	0.00
F	+13.49	+1.75	N	-1.75	-13.49	n	-2.18	-10.08	KK	0.00	-3.35
G	+13.49	-1.75	Р	-5.16	-12.57	р	-5.38	-8.78	LL	-2.18	0.00



H	/		U	+5.79	+4.93
			V	+8.10	0.00
			W	+6.10	-4.60
Ctc	x	Y	Х	+2.31	-7.37
Α	0.00	+12.22	Υ	-2.31	-7.37
В	+6.55	+10.31	Z	-6.10	-4.60
С	+10.03	+7.04	а	-8.10	0.00
D	+11.91	+2.77	b	-5.79	+4.93
E	+11.91	-2.77	С	0.00	+4.09
F	+10.03	-7.04	d	+3.40	0.00
G	+6.68	-10.31	е	0.00	-3.30
н	+2.31	-11.99	f	-3.40	0.00

Ctc

М

N

s

-2.31

-6.68

-10.03

-11.91

-11.91

-10.03

-6.55

-2.31

+2.31

-11.99

-10.31

-7.04

-2.77

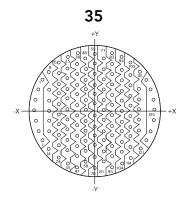
+2.77

+7.04

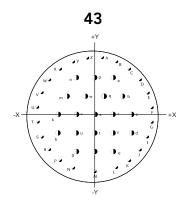
+10.31

+8.15 +8.15

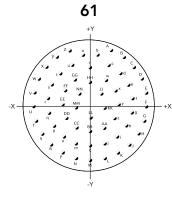
25 / J



Ctc	Х	Y	Ctc	Х	Y	Ctc	Х	Y	Ctc	Х	Y	Ctc	Х	Y
1	-12.17	+7.09	27	-6.32	+7.24	53	-2.11	0.00	79	+2.11	-7.24	104	+6.32	-12.07
2	-13.21	+4.83	28	-6.32	+4.83	54	-2.11	-2.41	80	+2.11	-9.65	105	+8.43	+11.28
3	-13.87	+2.41	29	-6.32	+2.41	55	-2.11	-4.83	81	+2.11	-12.07	106	+8.43	+8.43
4	-14.10	0.00	30	-6.32	0.00	56	-2.11	-7.24	82	+4.06	+13.49	107	+8.43	+6.02
5	-13.87	-2.41	31	-6.32	-2.41	57	-2.11	-9.65	83	+4.22	+10.85	108	+8.43	+3.61
6	-13.21	-4.83	32	-6.32	-4.83	58	-2.11	-12.07	84	+4.22	+8.43	109	+8.43	+1.19
7	-12.17	-7.09	33	-6.32	-7.24	59	0.00	+13.26	85	+4.22	+6.02	110	+8.43	-1.19
8	-10.77	+9.07	34	-6.32	-9.65	60	0.00	+10.85	86	+4.22	+3.61	111	+8.43	-3.61
9	-10.54	+4.83	35	-6.32	-12.07	61	0.00	+8.43	87	+4.22	+1.19	112	+8.43	-6.02
10	-10.54	+2.41	36	-4.06	+13.49	62	0.00	+6.02	88	+4.22	-1.19	113	+8.43	-8.43
11	-10.54	0.00	37	-4.22	+10.85	63	0.00	+3.61	89	+4.22	-3.61	114	+8.43	-10.85
12	-10.54	-2.41	38	-4.22	+8.43	64	0.00	+1.19	90	+4.22	-6.02	115	+10.77	+9.07
13	-10.54	-4.83	39	-4.22	+6.02	65	0.00	-1.19	91	+4.22	-8.43	116	+10.54	+4.83
14	-10.77	-9.07	40	-4.22	+3.61	66	0.00	-3.61	92	+4.22	-10.85	117	+10.54	+2.41
15	-8.43	+11.28	41	-4.22	+1.19	67	0.00	-6.02	93	+4.22	-13.26	118	+10.54	0.00
16	-8.43	+8.43	42	-4.22	-1.19	68	0.00	-8.43	94	+6.32	+12.60	119	+10.54	-2.41
17	-8.43	+6.02	43	-4.22	-3.61	69	0.00	-10.85	95	+6.32	+9.65	120	+10.54	-4.83
18	-8.43	+3.61	44	-4.22	-6.02	70	0.00	-14.10	96	+6.32	+7.24	121	+10.77	-9.07
19	-8.43	+1.19	45	-4.22	-8.43	71	+2.11	+12.07	97	+6.32	+4.83	122	+12.17	+7.09
20	-8.43	-1.19	46	-4.22	-10.85	72	+2.11	+9.65	98	+6.32	+2.41	123	+13.21	+4.83
21	-8.43	-3.61	47	-4.22	-13.26	73	+2.11	+7.34	99	+6.32	0.00	124	+13.87	+2.41
22	-8.43	-6.02	48	-2.11	+12.07	74	+2.11	+4.83	100	+6.32	-2.41	125	+14.10	0.00
23	-8.43	-8.43	49	-2.11	+9.65	75	+2.11	+2.41	101	+6.32	-4.83	126	+13.87	-2.41
24	-8.43	-10.85	50	-2.11	+7.24	76	+2.11	0.00	102	+6.32	-7.24	127	+13.21	-4.83
25	-6.32	+12.60	51	-2.11	+4.83	77	+2.11	-2.41	103	+6.32	-9.65	128	+12.17	-7.09
26	-6.32	+9.65	52	-2.11	+2.41	78	+2.11	-4.83						



Ctc	Х	Υ	Ctc	Х	Y
Α	+1.75	+13.49	Z	-1.75	+13.4
В	+5.16	+12.57	а	+4.37	+8.74
С	+8.23	+10.80	b	+6.55	+4.37
D	+10.77	+8.28	С	+8.74	0.00
E	+12.52	+5.21	d	+8.74	-4.37
F	+13.49	+1.75	е	+4.37	-8.74
G	+13.49	-1.75	f	0.00	-8.74
Н	+12.52	-5.21	g	-4.37	-8.74
J	+10.77	-8.28	h	-8.74	-4.37
K	+8.23	-10.80	k	-8.74	0.00
L	+5.16	-12.57	m	-6.55	+4.37
М	0.00	-13.49	n	-4.37	+8.74
N	-5.16	-12.57	р	0.00	+8.74
Р	-8.23	-10.80	q	+2.18	+4.37
R	-10.77	-8.28	r	+4.37	0.00
S	-12.52	-5.21	s	+4.37	-4.37
Т	-13.49	-1.75	t	0.00	-4.37
U	-13.49	+1.75	u	-4.37	-4.37
V	-12.52	+5.21	v	-4.37	0.00
W	-10.77	+8.28	w	-2.18	+4.37
х	-8.23	+10.80	x	0.00	0.00
Y	-5.16	+12.57			



						g	+9.96	-2.24	EE	-6.78	-0.25
Ctc	х	Y	Ctc	х	Y	h	+8.66	-5.41	FF	-6.02	+3.10
Α	+4.98	+12.70	K	+6.58	-11.94	i	+6.38	-7.98	GG	-3.73	+5.66
В	+7.98	+11.05	L	+3.40	-13.18	j	+3.38	-9.63	НН	0.00	+5.08
С	+10.49	+8.71	М	0.00	-13.64	k	0.00	-10.21	JJ	+2.67	+2.39
D	+12.32	+5.84	N	-3.40	-13.18	m	-3.38	-9.63	KK	+3.43	-1.04
E	+13.39	+2.57	Р	-6.58	-11.94	n	-6.38	-7.98	LL	0.00	-3.35
F	+13.61	-0.76	R	-9.35	-9.93	р	-8.66	-5.41	MM	-3.43	-1.04
G	+12.98	-4.17	S	-11.53	-7.29	q	-9.96	-2.24	NN	-2.67	+2.39
Н	+11.53	-7.29	Т	-12.98	-4.17	r	-10.13	+1.17	PP	0.00	0.00
J	+9.35	-9.93	U	-13.61	-0.76	s	-9.19	+4.45			

Ctc

вв

СС

-7.24

-4.39

0.00

+3.73

+6.02

+6.78

+5.79

+3.33

0.00

-3.33

+7.19

+9.22

+8.59

+5.66

+3.10

-0.25

-3.53

-5.92

-6.78

-5.92

-3.53

-13.39

-12.32

-10.49

-7.98

-4.98

-1.73

+1.73

+4.39

+7.24

+9.19

w

z

+2.57

+5.84

+8.71

-11.05

+12.10

+11.53

+11.53

+9.22

+7.19

+4.45

+10.13 +1.17 **DD** -5.79