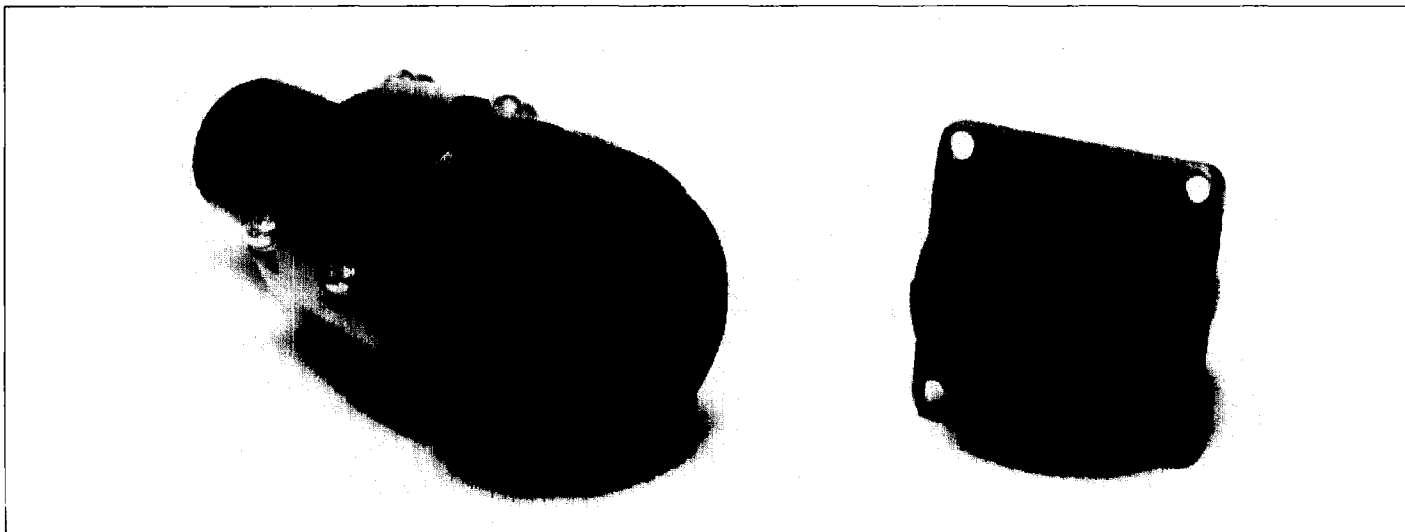


EB Series



EE-00EB-1A

Moisture-Proof Type Bayonet Lock Coupling



SUMMARY

EB series connectors meet the performance criteria of most factory automation applications. They withstand exposure to moisture, oil and vibration. Resilient insulator provides improved environmental sealing.

MATERIAL/FINISH

InsulatorChloroprene synthetic rubber/Black
ContactCopper alloy/Silver or Gold plating
ShellZinc alloy/Olive Drab chromate finish
HoodAluminum alloy/Olive Drab chromate finish
BushingChloroprene synthetic rubber/Black
CapChloroprene synthetic rubber/Black
or Metal/Olive Drab chromate finish

DDKLS023



SALES OFFICES

• DDK Ltd. (JAPAN)		
MOOKA, JAPAN	: Tel. 0285-84-7861	Fax. 0285-82-9036
KOREA	: Tel. 02-780-2251	Fax. 02-785-7661
SINGAPORE	: Tel. 271-1311	Fax. 273-6532
• DDK ELECTRONICS, INC. (U.S.A.)		
SANTA CLARA CALIFORNIA	: Tel. 408-980-8344	Fax. 408-980-9750
CLEVELAND, OHIO	: Tel. 216-252-1522	Fax. 216-252-1523
DALLAS TEXAS	: Tel. 214-480-8276	Fax. 214-480-8277
TORONTO LIAISON OFFICE (CANADA)	: Tel. 905-470-1346	Fax. 905-470-1479
• DDK ELECTRONICS (EUROPE), LTD. (LONDON)	: Tel. 0959-5-61224	Fax. 0959-5-61034
• DDK (THAILAND) LTD	: Tel. 02-529-1428	Fax. 02-529-1427

ENTERPRISE TECHNOLOGY

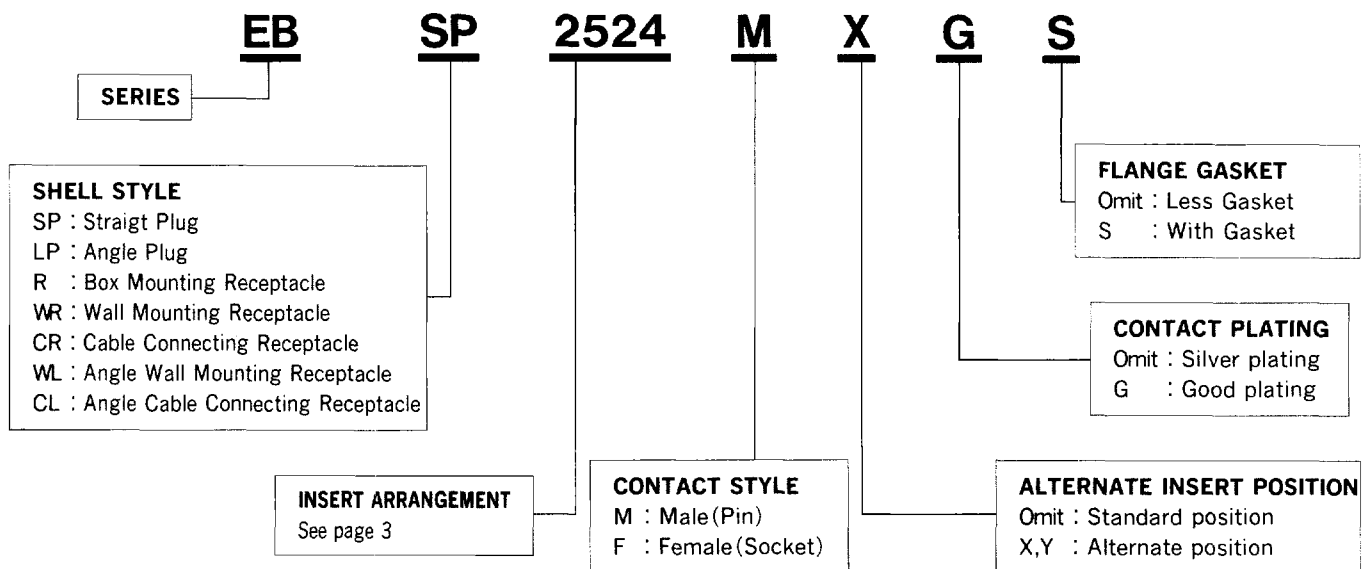
MANUFACTURERS REPRESENTATIVE

249 AYER ROAD - 5 - DALLAS, TEXAS 75201
TEL 508-772-6003 FAX 508-772-9378

Specification

		Contact size	
		#20	#16
Voltage rating (max.)		250V AC(rms), 350V DC	
Current rating (max.)		5A	10A
Operating temperature		-25°C to +85°C	
Insulation resistance		1000MΩ min. at 500V DC	
Dielectric withstanding voltage		1000V AC(rms) at sea level	
Contact resistance		5mΩ max. at 1A	
Vibration		10-22Hz, Amplitude:1.5mm(.059)	
Shock		Acceleration 50G	
Durability		500 cycles	
Humidity (Steady state)		40°C, 90 to 95%, 96 hours	
Tempertaure cycle		-40°C to +100°C, 5 cycles	
Salt spray		5%, 35°C, 48 hours	
Wire size	Contact	AWG #20	AWG #16
	Wire size	AWG #20 or Less	AWG #16 or Less

Ordering Information

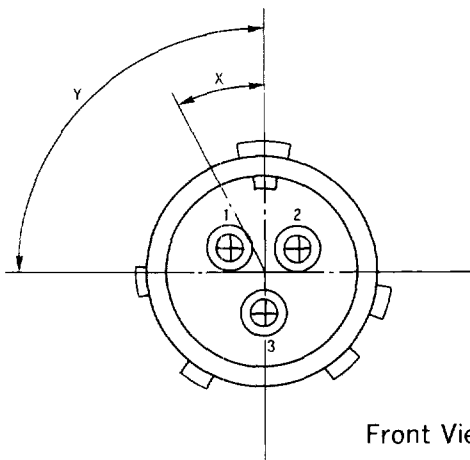


Insert Arrangements (Front view of male insert)

Insert No.	1303	1307	1607	1610	2110
Arrangements					
No. of Contacts	#16-3	#20-7	#16-7	#20-10	#16-10
Shell Size	13	13	16	16	21

Insert No.	2119	2516	2524	2532
Arrangements				
No. of Contacts	#20-19	#16-16	#20-24	#20-32
Shell Size	21	25	25	25

Alternate Insert Positions



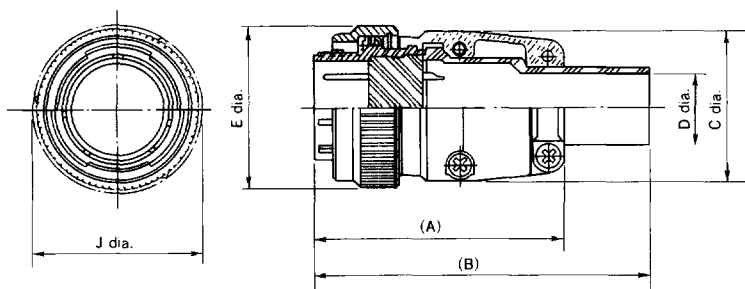
Front View of Male Insert

Insert No.	Contact Size/ No. of Contacts	X	Y
1303	#16/3	30°	90°
1307	#20/7	—	90°
1607	#16/7	30°	135°
1610	#20/10	45°	90°
2110	#20/10	45°	90°
2119	#20/19	45°	90°
2516	#16/16	45°	90°
2524	#20/24	45°	90°
2532	#20/32	45°	90°

EBSP

Unit : mm (inch)

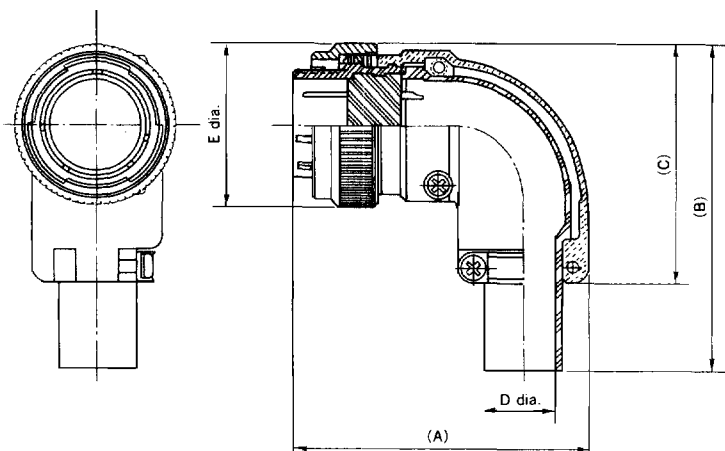
Straight Plug



Shell Size	A	B	C	D	E	J
13	51.6 (2.031)	71.6 (2.819)	23.5 (.925)	8.2 (.323)	25.5 (1.004)	27 (1.063)
16	53.6 (2.110)	73.6 (2.898)	27.4 (1.079)	9.2 (.362)	29.5 (1.161)	31 (1.220)
21	55.6 (2.189)	75.6 (2.976)	31.6 (1.244)	12.2 (.480)	33.5 (1.319)	35.5 (1.398)
25	57.6 (2.268)	77.6 (3.055)	34.8 (1.370)	15 (.591)	37.4 (1.472)	38.7 (1.524)

EBLP

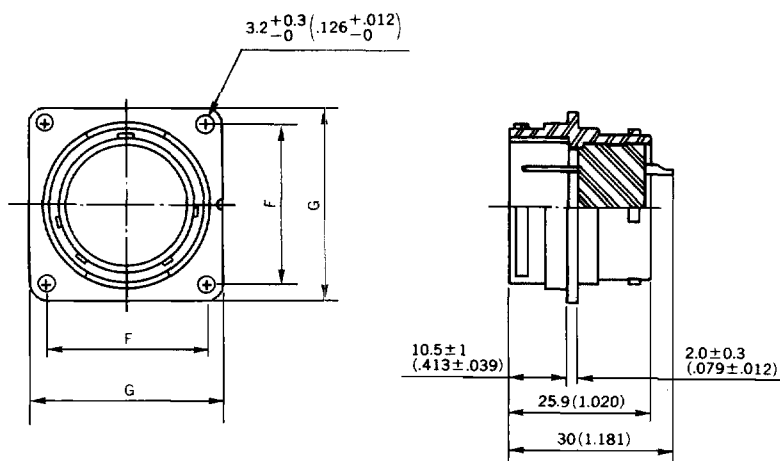
Angle Plug



Shell Size	A	B	C	D	E
13	55.5 (2.185)	63.1 (2.484)	43.1 (1.697)	8.2 (.323)	25.5 (1.004)
16	60 (2.362)	67.1 (2.642)	47.1 (1.854)	9.2 (.362)	29.5 (1.161)
21	63.8 (2.512)	71.1 (2.799)	51.1 (2.012)	12.2 (.480)	33.5 (1.319)
25	68 (2.677)	74.7 (2.941)	54.7 (2.154)	15 (.591)	37.4 (1.472)

EBR

Box Mounting Receptacle

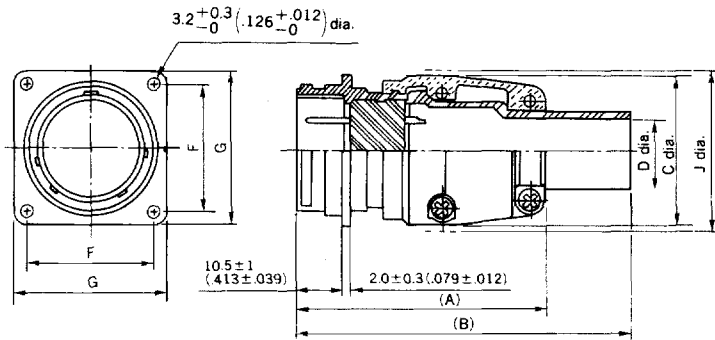


Shell Size	F	G
13	20 (.787)	26 (1.024)
16	23 (.906)	29 (1.142)
21	26 (1.024)	32 (1.260)
25	29 (1.142)	35 (1.378)

EBWR

Unit : mm (inch)

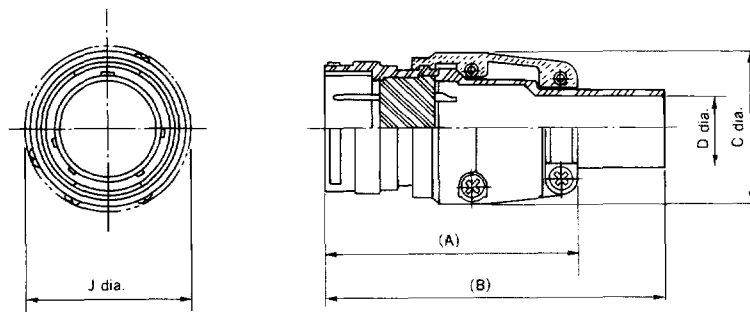
Wall Mounting Receptacle



Shell Size	A	B	C	D	F	G	J
13	51.6 (2.031)	71.6 (2.819)	23.5 (.925)	8.2 (.323)	20 (.787)	26 (1.024)	27 (1.063)
16	53.6 (2.110)	73.6 (2.898)	27.4 (1.079)	9.2 (.362)	23 (.906)	29 (1.142)	31 (1.220)
21	55.6 (2.189)	75.6 (2.976)	31.6 (1.244)	12.2 (.480)	26 (1.024)	32 (1.260)	35.5 (1.398)
25	57.6 (2.268)	77.6 (3.055)	34.8 (1.370)	15 (.591)	29 (1.142)	35 (1.378)	38.7 (1.524)

EBCR

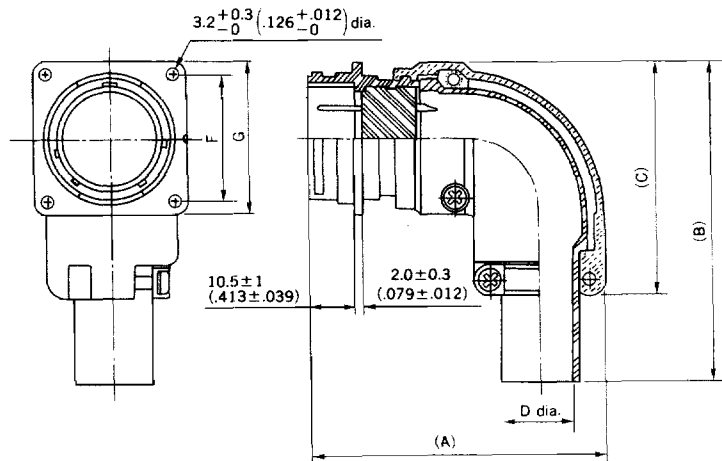
Cable Connecting Receptacle



Shell Size	A	B	C	D	J
13	51.6 (2.031)	71.6 (2.819)	23.5 (.925)	8.2 (.323)	27 (1.063)
16	53.6 (2.110)	73.6 (2.898)	27.4 (1.079)	9.2 (.362)	31 (1.220)
21	55.6 (2.189)	75.6 (2.976)	31.6 (1.244)	12.2 (.480)	33.5 (1.398)
25	57.6 (2.268)	77.6 (3.055)	34.8 (1.370)	15 (.591)	38.7 (1.524)

EBWL

Angle Wall Mounting Receptacle

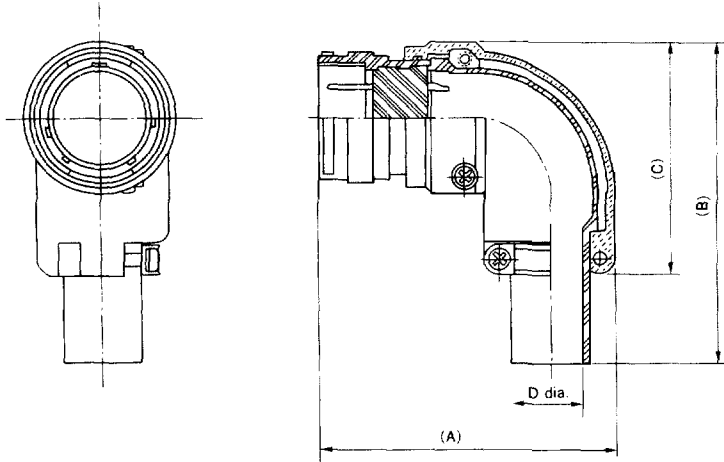


Shell Size	A	B	C	D
13	55.5 (2.185)	61.9 (2.437)	41.9 (1.650)	8.2 (.323)
16	60 (2.362)	66 (2.598)	46 (1.811)	9.2 (.362)
21	63.8 (2.512)	70.2 (2.764)	50.2 (1.976)	12.2 (.480)
25	68 (2.677)	73.4 (2.890)	53.4 (2.102)	15 (.591)

EBCL

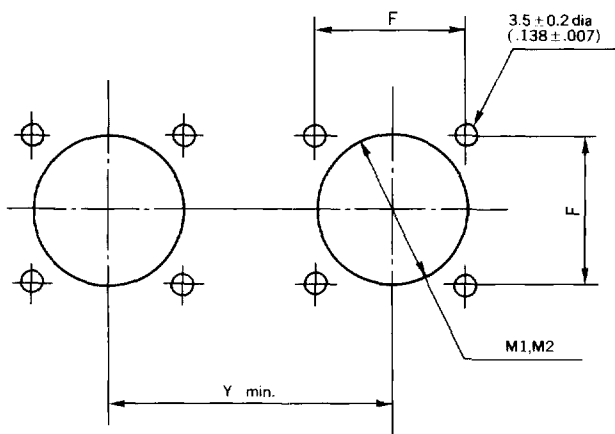
Unit : mm (inch)

Angle Cable Connecting Receptacle



Shell Size	A	B	C	D
13	55.5 (2.185)	61.9 (2.437)	41.9 (1.650)	8.2 (.323)
16	60 (2.362)	66 (2.598)	46 (1.811)	9.2 (.362)
21	63.8 (2.512)	70.2 (2.764)	50.2 (1.975)	12.2 (.480)
25	68 (2.677)	73.4 (2.890)	53.4 (2.102)	15 (.591)

Panel Cutout (for EBR/EBWR/EBWL)



Shell Size	E	M ₁	M ₂	Y
13	20 (.787)	17 (.669)	19 (.748)	42 (1.654)
16	23 (.906)	21 (.827)	23 (.906)	46 (1.811)
21	26 (1.024)	25 (.984)	27 (1.063)	50 (1.969)
25	29 (1.142)	29 (1.142)	31 (1.220)	54 (2.126)

M₁ : Front mounting holes dia.

M₂ : Rear mounting holes dia.

CAP Ordering Information

EB PC 25 RA

CAP STYLE

PC : Plug Cap

RC : Receptacle Cap

SHELL SIZE

13, 16, 21, 25

MATERIAL

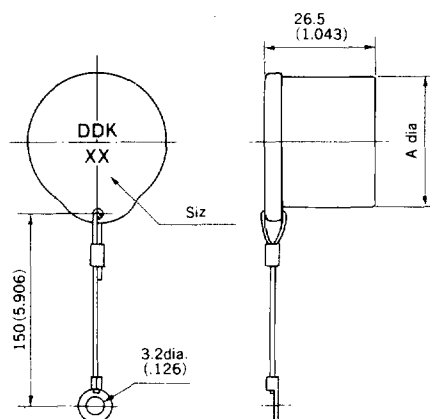
Omit : Metal

RA : Rubber

Rubber type

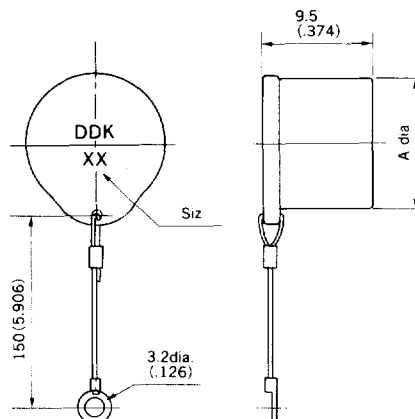
Unit : mm (inch)

• EBPCXXRA (Plug Cap)



Shell Size	A
13	31.6 (1.244)
16	35.6 (1.402)
21	39.6 (1.559)
25	43.5 (1.713)

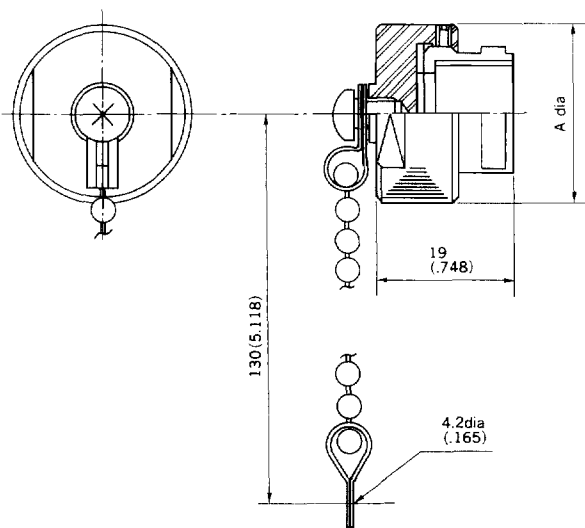
• EBRCXXRA (Receptacle Cap)



Shell Size	A
13	22.0 (.866)
16	26.0 (1.024)
21	30.0 (1.181)
25	34.0 (1.339)

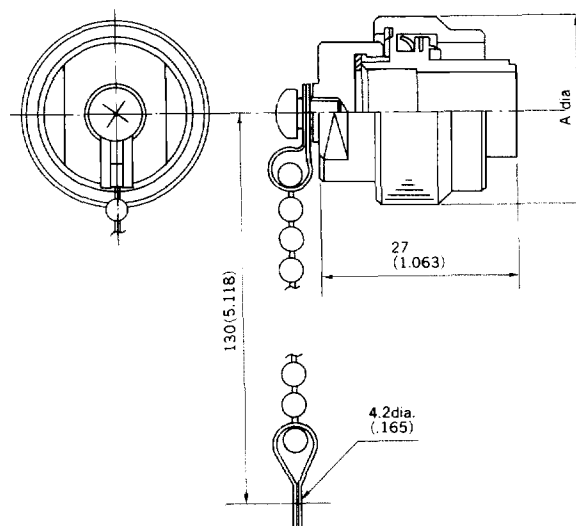
Metal type

• EBPCXX (Plug Cap)



Shell Size	A
13	24.4 (.961)
16	28.4 (1.118)
21	32.4 (1.276)
25	36.4 (1.433)

• EBRC-XX (Receptacle Cap)



Shell Size	A
13	25.5 (1.004)
16	29.5 (1.161)
21	33.5 (1.319)
25	37.4 (1.472)