



SERIES 801 DOUBLE-START ACME THREAD Mighty Mouse Connectors and Cables



Hermetic Receptacles, Solder Cup or PC Tail



Series 801 Hermetic Receptacles

Feature a double-start modified stub ACME mating thread for improved protection against cross-mating and thread damage. 304L stainless steel shells suitable for E-Beam welding. 100% tested to meet 1×10^{-7} ccHe/sec @ 1 atm helium leak rate. Five shell styles available including solder mount, weld mount, jam-nut, dual O-ring jam nut, or square flange. Integral standoffs for solder washout. Solder cup or PC tail contacts for attachment to flex or rigid circuit boards. Contacts are gold plated, nickel-iron.

NOTES

1. Hermeticity: 1×10^{-7} cc/sec at one atmosphere, not for use in liquid environment
2. This connector mates with all quick coupling high density plug connectors with same polarization and opposite contact gender, (801-001, 801-002, 801-007, and 801-008)
3. See page E-11 for panel cut-out dimensions
4. For all insert arrangements with size #8 contacts, add .300" to OAL dimension.
5. Material / finish:
 - Shell: CRES 304L / passivate or plate as required
 - Jam-nut: CRES / passivate or plate as required
 - Contacts: alloy 52 / gold plate
 - Seals: fluorosilicone
 - Insulators:
 - » Fused glass (hermetic)
 - » Rigid dielectric (socket insulator)
 - Sockets:
 - » Copper alloy / gold plate (contact)
 - » CRES / passivated (hood)

How To Order

Sample Part Number		801-012	-03	Z1	7-10	P	A
Series	801-012 = Hermetic Receptacles						
Shell Style (See Table I)	-02 = Square Flange, Front or Rear Panel Mount						
	-03 = Solder Mount, Front or Rear Panel Mount						
	-07 = Jam-Nut, Rear Panel Mount						
	-13 = Weld Mount, Front Panel Mount						
	-D07 = Dual O-ring Jam-Nut, Rear Panel Mount						
Material and Finish	Z1 = Stainless Steel / Passivated ZL = Stainless Steel / Nickel Plated						
Shell Size - Insert Arrangement	See Contact Arrangements pages M-8 thru M-32						
Contact Type	P = Pin, Solder Cup		C = Pin, PC Tail				
	S = Socket, Solder Cup		D = Socket, PC Tail				
Polarization (See Table II)	A = Normal		B = Pos. B		C = Pos. C		
	D = Pos. D		E = Pos. E		F = Pos. F		

Table I: Shell Style

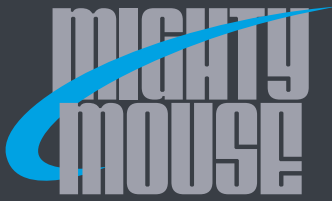
Style -02 Square Flange	Style -03 Solder Mount	Style -07, -D07 Jam-Nut Mount	Style -13 Weld Mount

DWV Rating

Contact Sizes	Test Voltage
23	750 VAC
20 HD	1000 VAC
16, 12, 8	1800 VAC

Table II: Keyway Positions

Position	A°	B°
A	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°
E	75°	275°
F	95°	210°

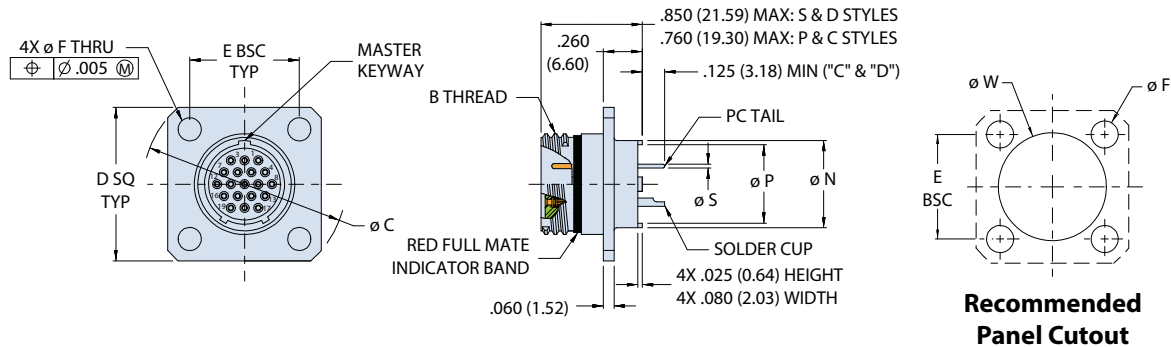


SERIES 801 DOUBLE-START ACME THREAD Mighty Mouse Connectors and Cables

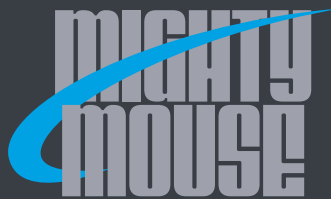


Solder Cup or PC Tail Square Flange Mount Receptacle

FRONT OR REAR, SQUARE FLANGE MOUNT - SHELL STYLE 02



Dimensions									
Shell Size	B Thread	$\varnothing$ C	D Sq	E BSC	$\varnothing$ F	$\varnothing$ N	$\varnothing$ P	$\varnothing$ S PC Tail Dia	$\varnothing$ W $\pm .005$
5	.3125-.05P-.1L-2A	.680 (17.27)	.530 (13.46)	.363 (9.22)	.096/.091	.244 (6.20)	.197 (5.00)	#23 .018/.022 (0.46/0.56)	.328 (8.33)
6	.3750-.05P-.1L-2A	.750 (19.05)	.590 (14.99)	.423 (10.74)		.330 (8.38)	.236 (5.99)		.390 (9.91)
7	.4375-.05P-.1L-2A	.850 (21.59)	.650 (16.51)	.483 (12.27)		.432 (10.97)	.324 (8.23)		.453 (11.51)
8	.5000-.05P-.1L-2A	.938 (23.83)	.712 (18.08)	.545 (13.84)		.493 (12.52)	.390 (9.91)		.515 (13.08)
9	.5625-.05P-.1L-2A	1.125 (28.58)	.850 (21.59)	.607 (15.42)	.130/.126	.551 (14.00)	.444 (11.28)	#20 .024/.028 (0.61/0.71)	.578 (14.68)
10	.6250-.05P-.1L-2A	1.188 (30.18)	.890 (22.61)	.670 (17.02)		.620 (15.75)	.520 (13.21)		.640 (16.26)
11	.6875-.05P-.1L-2A	1.250 (31.75)	.935 (23.75)	.715 (18.16)		.662 (16.81)	.557 (14.15)		.703 (17.86)
13	.8125-.1P-.2L-2A	1.375 (34.92)	1.030 (26.16)	.812 (20.62)		.703 (17.86)	.596 (15.14)		.828 (21.03)
16	1.0000-.1P-.2L-2A	1.625 (41.28)	1.219 (30.96)	.981 (24.92)		.863 (21.92)	.756 (19.20)		1.015 (25.78)
17	1.0625-.1P-.2L-2A	1.700 (43.18)	1.280 (32.51)	1.060 (26.92)		.912 (23.16)	.805 (20.45)		1.078 (27.38)
19	1.1875-.1P-.2L-2A	1.900 (48.26)	1.432 (36.37)	1.191 (30.25)		1.018 (25.86)	.910 (23.11)		1.203 (30.56)
21	1.3125-.1P-.2L-2A	2.100 (53.34)	1.565 (39.75)	1.322 (33.58)		1.170 (29.72)	1.061 (26.95)		1.328 (33.73)

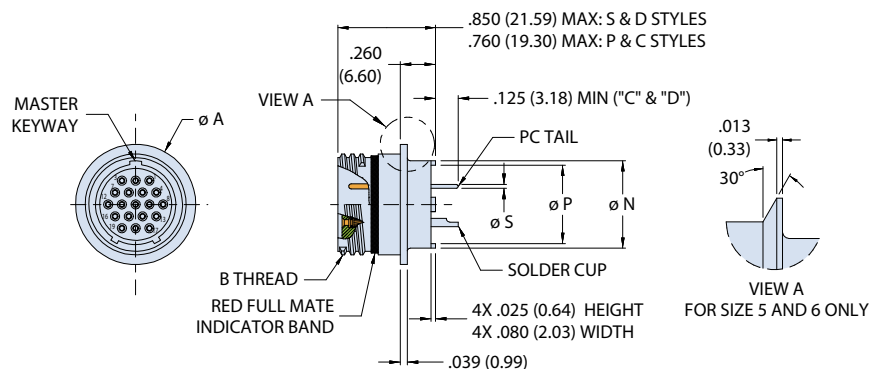


SERIES 801 DOUBLE-START ACME THREAD Mighty Mouse Connectors and Cables



Solder Cup or PC Tail Solder or Weld Mount Receptacle

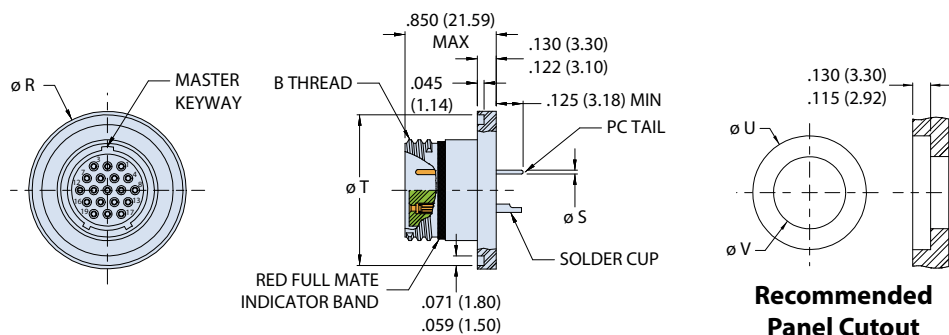
SOLDER MOUNT RECEPTACLE - SHELL STYLE 03



PC Tail Diameter	
Ø S	
#23 .018/.022 (0.46/0.56)	#16 .060/.064 (1.52/1.63)
#20 .024/.028 (0.61/0.71)	#12 .092/.096 (2.34/2.44)

Dimensions									
Shell Size	Ø A	B Thread	Ø N	Ø P	Shell Size	Ø A	B Thread	Ø N	Ø P
5	.395 (10.03)	.3125-.05P-.1L-2A	.244 (6.20)	.197 (5.00)	11	.770 (19.56)	.6875-.05P-.1L-2A	.662 (16.81)	.557 (14.15)
6	.455 (11.56)	.375-.05P-.1L-2A	.330 (8.38)	.236 (5.99)	13	.895 (22.73)	.8125-.1P-.2L-2A	.703 (17.86)	.596 (15.14)
7	.520 (13.21)	.4375-.05P-.1L-2A	.432 (10.97)	.324 (8.23)	16	1.080 (27.43)	1.000-.1P-.2L-2A	.863 (21.92)	.756 (19.20)
8	.580 (14.73)	.5000-.05P-.1L-2A	.493 (12.52)	.390 (9.91)	17	1.145 (29.08)	1.062-.1P-.2L-2A	.912 (23.16)	.805 (20.45)
9	.645 (16.38)	.5625-.05P-.1L-2A	.551 (14.00)	.444 (11.28)	19	1.270 (32.26)	1.1875-.1P-.2L-2A	1.018 (25.86)	.910 (23.11)
10	.705 (17.91)	.6250-.05P-.1L-2A	.620 (15.75)	.520 (13.21)	21	1.395 (35.43)	1.3125-.1P-.2L-2A	1.170 (29.72)	1.061 (26.95)

WELD MOUNT RECEPTACLE - SHELL STYLE 13

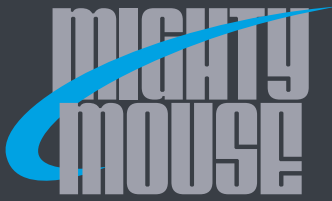


PC Tail Diameter	
Ø S	
#23 .018/.022 (0.46/0.56)	#16 .060/.064 (1.52/1.63)
#20 .024/.028 (0.61/0.71)	#12 .092/.096 (2.34/2.44)

Recommended
Panel Cutout

Dimensions											
Shell Size	B Thread	Ø R ±.002	Ø T	Ø U	Ø V	Shell Size	B Thread	Ø R ±.002	Ø T	Ø U	Ø V
5	.3125-.05P-.1L-2A	.600 (15.24)	.555 (14.10)	.606 (15.39)	.180 (4.57)	11	.6875-.05P-.1L-2A	1.062 (26.97)	1.019 (25.88)	1.068 (27.13)	.580 (14.73)
6	.3750-.05P-.1L-2A	.665 (16.89)	.620 (15.75)	.671 (17.04)	.240 (8.38)	13	.8125-.1P-.2L-2A	1.162 (29.51)	1.119 (28.42)	1.168 (29.67)	.610 (15.49)
7	.4375-.05P-.1L-2A	.730 (18.54)	.685 (17.40)	.736 (18.69)	.330 (6.10)	16	1.0000-.1P-.2L-2A	1.288 (32.72)	1.245 (31.62)	1.294 (32.87)	.775 (19.69)
8	.5000-.05P-.1L-2A	.788 (20.02)	.745 (18.92)	.794 (20.17)	.390 (9.91)	17	1.0625-.1P-.2L-2A	1.360 (34.54)	1.315 (33.40)	1.366 (34.70)	.825 (20.96)
9	.5625-.05P-.1L-2A	.912 (23.16)	.869 (22.07)	.918 (23.32)	.455 (11.56)	19	1.1875-.1P-.2L-2A	1.495 (37.97)	1.452 (36.88)	1.501 (38.13)	.930 (23.62)
10	.6250-.05P-.1L-2A	.975 (24.77)	.933 (23.70)	.981 (24.92)	.520 (13.21)	21	1.3125-.1P-.2L-2A	1.625 (41.28)	1.580 (40.13)	1.631 (41.43)	1.080 (27.43)

PC Tail Diameter	
Ø S	
#23 - .018/.022 (0.46/0.56)	#20 - .024/.028 (0.61/0.71)
#16 - .060/.064 (1.52/1.63)	#12 - .092/.096 (2.34/2.44)



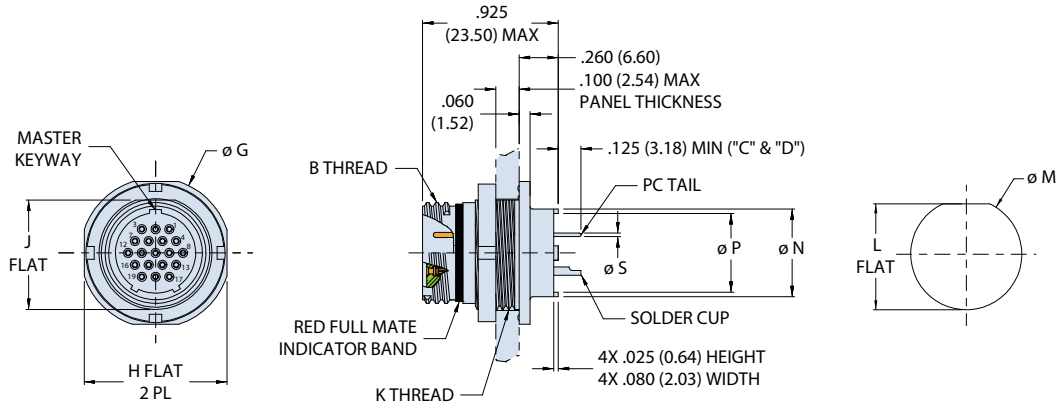
SERIES 801 DOUBLE-START ACME THREAD Mighty Mouse Connectors and Cables

Solder Cup or PC Tail Jam-Nut Mount Receptacle

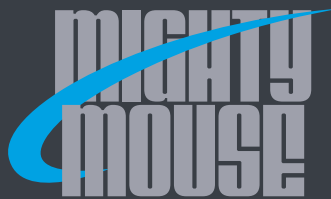


JAM-NUT MOUNT RECEPTACLE - SHELL STYLE 07

PC Tail Diameter	
Ø S	
#23 .018/.022 (0.46/0.56)	#16 .060/.064 (1.52/1.63)
#20 .024/.028 (0.61/0.71)	#12 .092/.096 (2.34/2.44)



Dimensions									
Shell Size	B Thread	Ø G	H Flat	J Flat	K Thread UN-2A	L Flat	Ø M	Ø N	Ø P
5	.3125-.05P-.1L-2A	.575 (14.60)	.545 (13.84)	.350 (8.89)	.3750-28	.358 (9.09) .354 (8.99)	.385 (9.78) .380 (9.65)	.244 (6.20)	.197 (5.00)
6	.3750-.05P-.1L-2A	.635 (16.13)	.595 (15.11)	.410 (10.41)	.4375-28	.418 (10.62) .414 (10.52)	.448 (11.38) .443 (11.25)	.330 (8.38)	.236 (5.99)
7	.4375-.05P-.1L-2A	.755 (19.18)	.723 (18.36)	.536 (13.61)	.5625-32	.544 (13.82) .540 (13.72)	.572 (14.53) .567 (14.40)	.432 (10.97)	.324 (8.23)
8	.5000-.05P-.1L-2A	.755 (19.18)	.723 (18.36)	.536 (13.61)	.5625-32	.544 (13.82) .540 (13.72)	.572 (14.53) .567 (14.40)	.493 (12.52)	.390 (9.91)
9	.5625-.05P-.1L-2A	.830 (21.08)	.790 (20.07)	.596 (15.14)	.6250-28	.604 (15.34) .600 (15.24)	.635 (16.13) .630 (16.00)	.551 (14.00)	.444 (11.28)
10	.6250-.05P-.1L-2A	.890 (22.61)	.855 (21.72)	.658 (16.71)	.6875-28	.666 (16.92) .662 (16.81)	.698 (17.73) .693 (17.60)	.620 (15.75)	.520 (13.21)
11	.6875-.05P-.1L-2A	.960 (24.38)	.925 (23.50)	.718 (18.24)	.7500-28	.728 (18.49) .724 (18.39)	.760 (19.30) .755 (19.18)	.662 (16.81)	.557 (14.15)
13	.8125-.1P-.2L-2A	1.078 (27.38)	1.044 (26.52)	.845 (21.46)	.8750-28	.853 (21.67) .849 (21.56)	.885 (22.48) .880 (22.35)	.703 (17.86)	.596 (15.14)
16	1.0000-.1P-.2L-2A	1.265 (32.13)	1.230 (31.24)	1.022 (25.96)	1.0625-20	1.030 (26.16) 1.026 (26.06)	1.072 (27.23) 1.067 (27.10)	.863 (21.92)	.756 (19.20)
17	1.0625-.1P-.2L-2A	1.325 (33.65)	1.290 (32.77)	1.096 (27.84)	1.1250-28	1.104 (28.04) 1.100 (27.94)	1.135 (28.83) 1.130 (28.70)	.912 (23.16)	.805 (20.45)
19	1.1875-.1P-.2L-2A	1.450 (36.83)	1.415 (35.94)	1.225 (31.12)	1.2500-28	1.235 (31.37) 1.231 (31.27)	1.260 (32.00) 1.255 (31.88)	1.018 (25.86)	.910 (23.11)
21	1.3125-.1P-.2L-2A	1.625 (41.28)	1.577 (40.06)	1.346 (34.19)	1.3750-28	1.354 (34.39) 1.350 (34.29)	1.385 (35.18) 1.380 (35.05)	1.170 (29.72)	1.061 (26.95)



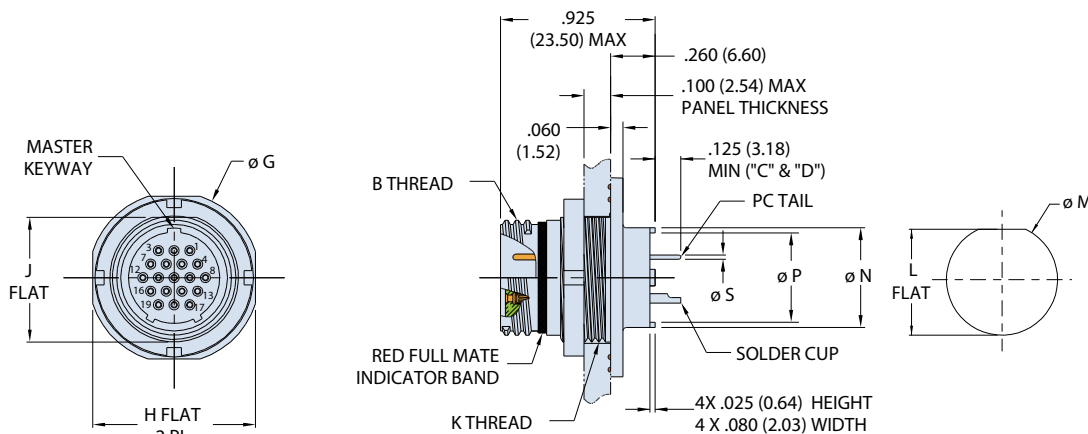
SERIES 801 DOUBLE-START ACME THREAD Mighty Mouse Connectors and Cables

Solder Cup or PC Tail Jam-Nut Mount Receptacle



JAM-NUT MOUNT, DUAL O-RING RECEPTACLE - SHELL STYLE D07

PC Tail Diameter	
Ø S	
#23 .018/.022 (0.46/0.56)	#16 .060/.064 (1.52/1.63)
#20 .024/.028 (0.61/0.71)	#12 .092/.096 (2.34/2.44)



Dimensions									
Shell Size	B Thread	Ø G	H Flat	J Flat	K Thread	L Flat	Ø M	Ø N	Ø P
5	.3125-.05P-.1L-2A	0.980 (24.89)	0.855 (21.72)	0.350 (8.89)	.3750-28 UN-2A	0.358 (9.09) 0.354 (8.99)	0.385 (9.78) 0.380 (9.65)	0.244 (6.20)	0.197 (5.00)
6	.3750-.05P-.1L-2A	1.050 (26.67)	0.930 (23.62)	0.410 (10.41)	.4375-28 UNEF-2A	0.418 (10.62) 0.414 (10.52)	0.448 (11.38) 0.443 (11.25)	0.330 (8.38)	0.236 (5.99)
7	.4375-.05P-.1L-2A	1.180 (29.97)	1.055 (26.80)	0.536 (13.61)	.5625-32 UN-2A	0.544 (13.82) 0.540 (13.72)	0.572 (14.53) 0.567 (14.40)	0.432 (10.97)	0.324 (8.23)
8	.5000-.05P-.1L-2A	1.180 (29.97)	1.055 (26.80)	0.536 (13.61)	.5625-32 UN-2A	0.544 (13.82) 0.540 (13.72)	0.572 (14.53) 0.567 (14.40)	0.493 (12.52)	0.390 (9.91)
9	.5625-.05P-.1L-2A	1.295 (32.89)	1.170 (29.72)	0.596 (15.14)	.6250-28 UN-2A	0.604 (15.34) 0.600 (15.24)	0.635 (16.13) 0.630 (16.00)	0.551 (14.00)	0.444 (11.28)
10	.6250-.05P-.1L-2A	1.335 (33.91)	1.210 (30.73)	0.658 (16.71)	.6875-28 UN-2A	0.666 (16.92) 0.662 (16.81)	0.698 (17.73) 0.693 (17.60)	0.620 (15.75)	0.520 (13.21)
11	.6875-.05P-.1L-2A	1.425 (36.20)	1.300 (33.02)	0.718 (18.24)	.7500-28 UN-2A	0.728 (18.49) 0.724 (18.39)	0.760 (19.30) 0.755 (19.18)	0.662 (16.81)	0.557 (14.15)
13	.8125-.1P-.2L-2A	1.490 (37.85)	1.365 (34.67)	0.845 (21.46)	.8750-28 UN-2A	0.853 (21.67) 0.849 (21.56)	0.885 (22.48) 0.880 (22.35)	0.703 (17.86)	0.596 (15.14)
16	1.0000-.1P-.2L-2A	1.670 (42.42)	1.545 (39.24)	1.022 (25.96)	1.0625-20 UN-2A	1.030 (26.16) 1.026 (26.06)	1.072 (27.23) 1.067 (27.10)	0.863 (21.92)	0.756 (19.20)
17	1.0625-.1P-.2L-2A	1.815 (46.10)	1.690 (42.93)	1.096 (27.84)	1.1250-28 UN-2A	1.104 (28.04) 1.100 (27.94)	1.135 (28.83) 1.130 (28.70)	0.912 (23.16)	0.805 (20.45)
19	1.1875-.1P-.2L-2A	1.930 (49.02)	1.805 (45.85)	1.225 (31.12)	1.2500-28 UN-2A	1.235 (31.37) 1.231 (31.27)	1.260 (32.00) 1.255 (31.88)	1.018 (25.86)	0.910 (23.11)
21	1.3125-.1P-.2L-2A	2.070 (52.58)	1.960 (49.78)	1.346 (34.19)	1.3750-28 UN-2A	1.354 (34.39) 1.350 (34.29)	1.385 (35.18) 1.380 (35.05)	1.170 (29.72)	1.061 (26.95)