



# BEST TECHNOLOGY CO., LIMITED

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Email: sales@bestfpc.com

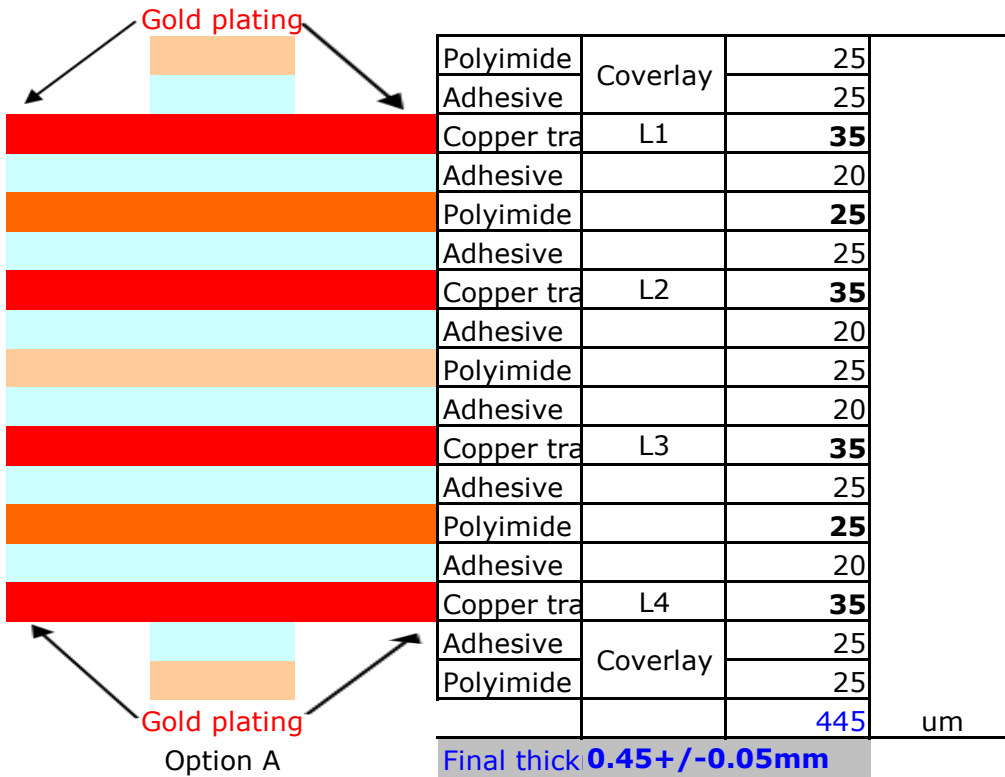
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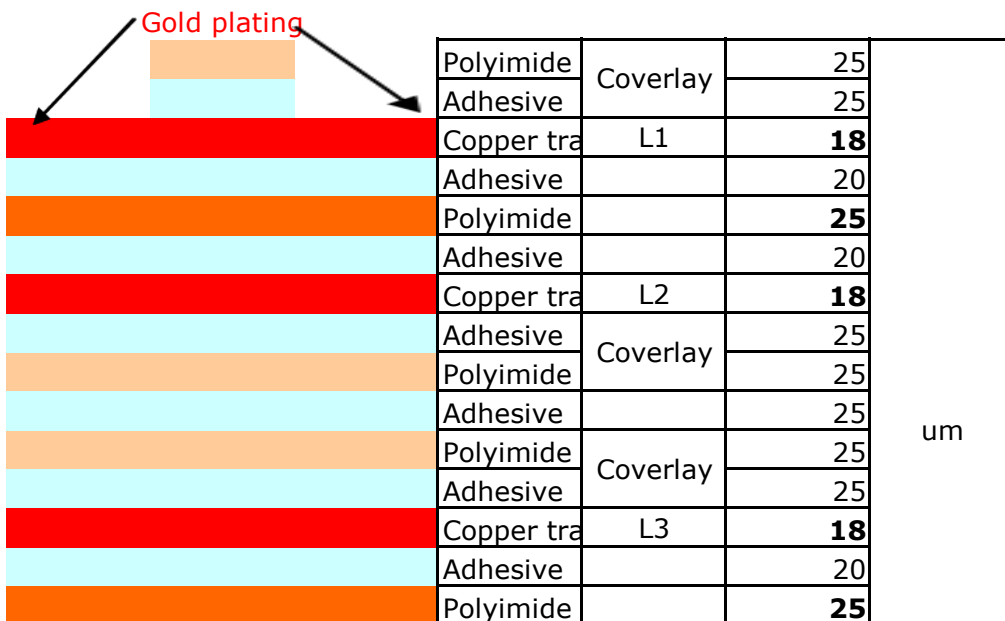
## Adhesive material Layer up for 4 Flex circuits

(Copper plating thickness excludes)

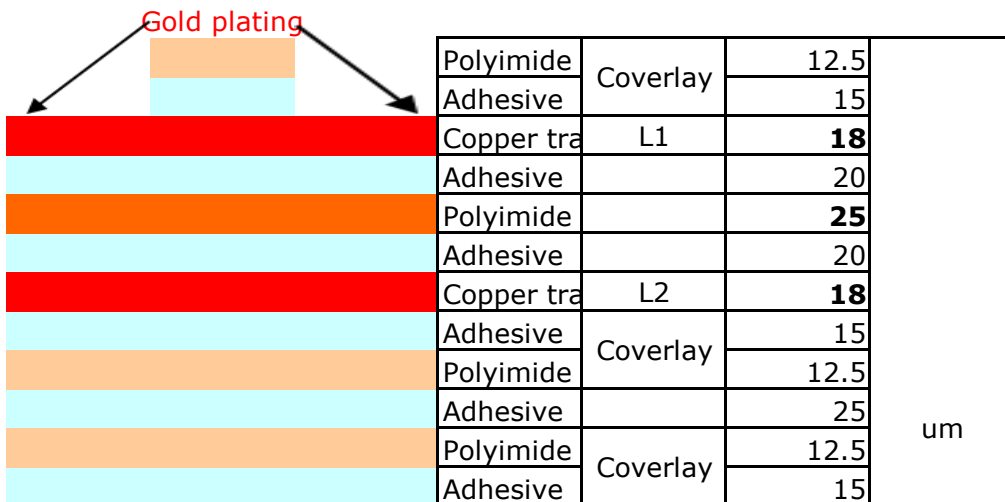
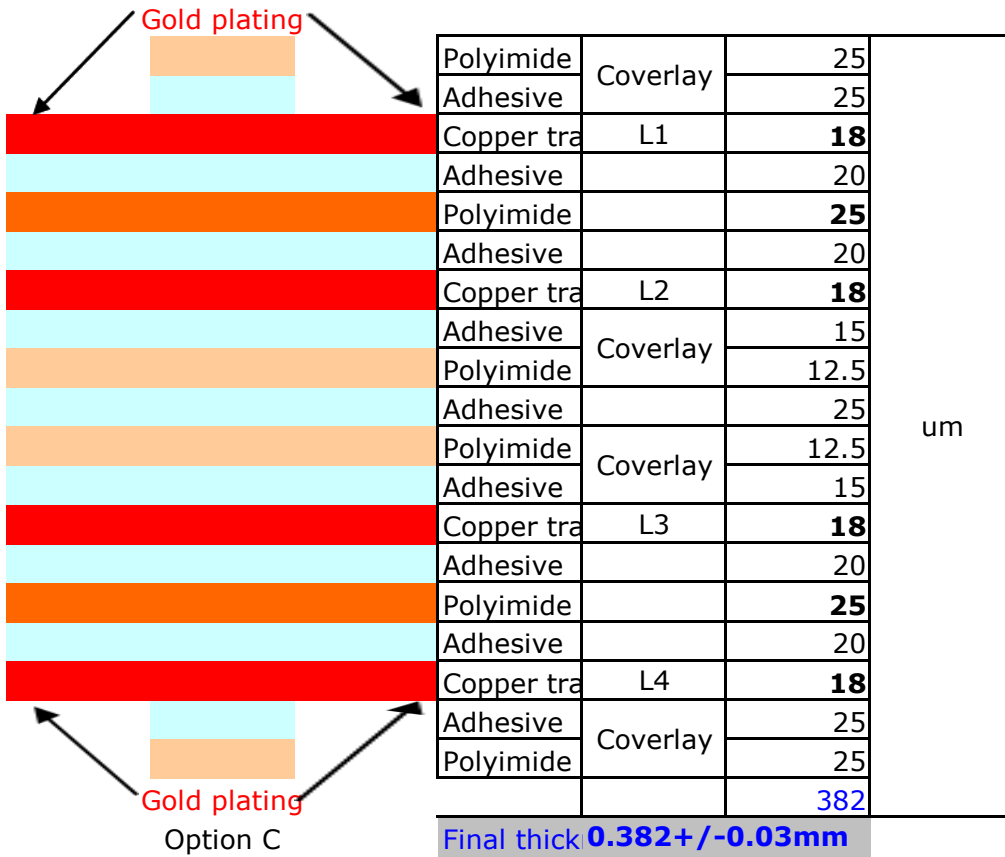
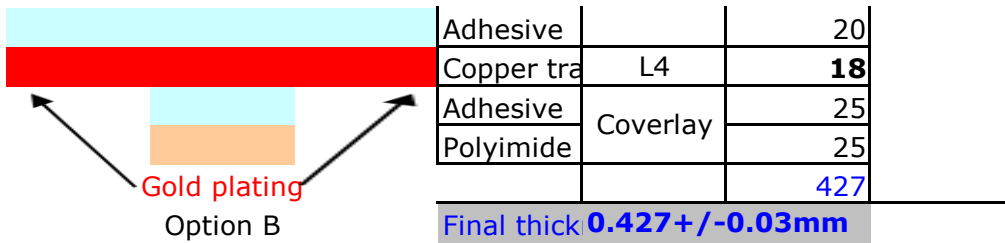


Gold plating

Option A



Gold plating



Copper tra	L3	<b>18</b>
Adhesive		20
Polyimide		<b>25</b>
Adhesive		20
Copper tra	L4	<b>18</b>
Adhesive	Coverlay	15
Polyimide		12.5
		<b>337</b>
<b>Final thick 0.337+/-0.03mm</b>		

Option D

Polyimide	Coverlay	12.5
Adhesive		15
Copper tra	L1	<b>18</b>
Adhesive		12.5
Polyimide		<b>12.5</b>
Adhesive		12.5
Copper tra	L2	<b>18</b>
Adhesive	Coverlay	15
Polyimide		12.5
Adhesive		25
Polyimide	Coverlay	12.5
Adhesive		15
Copper tra	L3	<b>18</b>
Adhesive		12.5
Polyimide		<b>12.5</b>
Adhesive		12.5
Copper tra	L4	<b>18</b>
Adhesive	Coverlay	15
Polyimide		12.5
		<b>282</b>
<b>Final thick 0.282+/-0.03mm</b>		

Option E

um



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## Adhesiveless material Layer up for 4 Flex circuits (Copper plating thickness excludes)

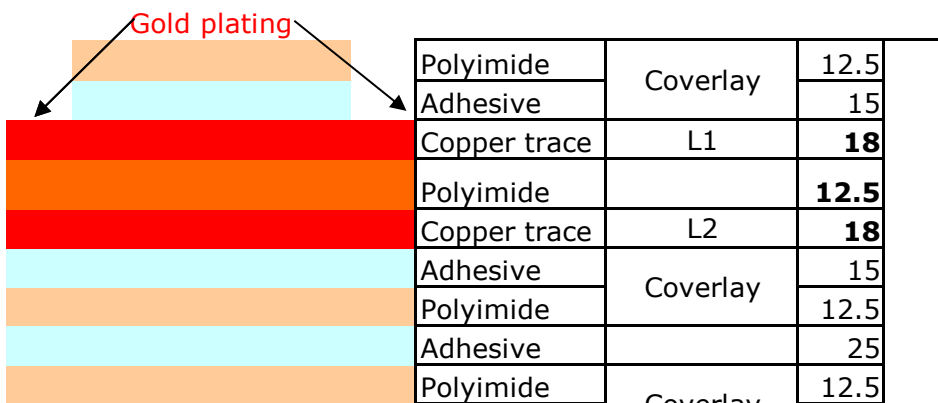
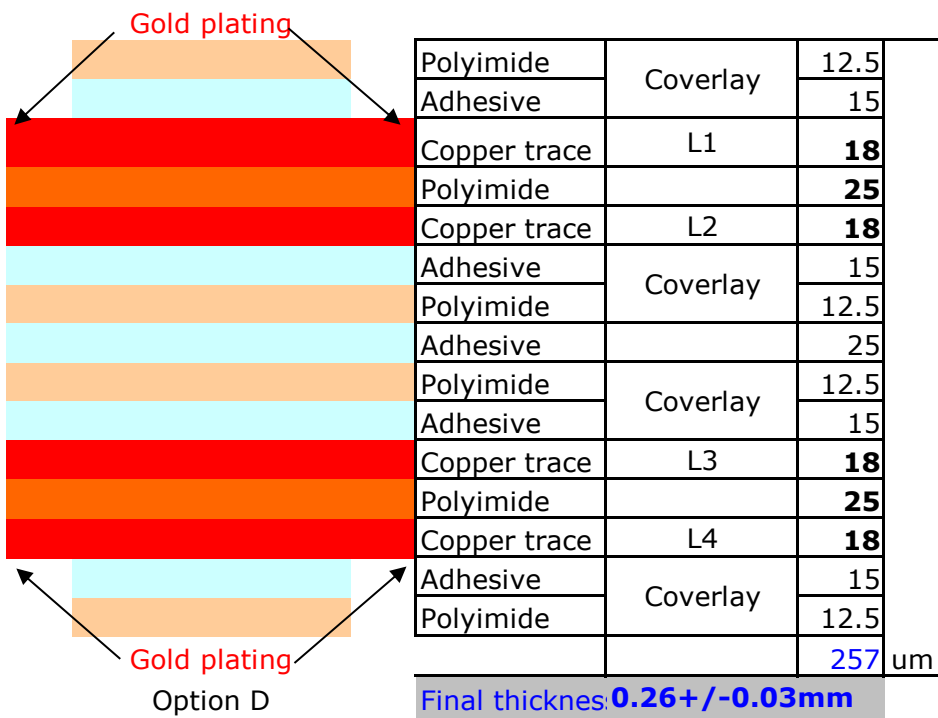
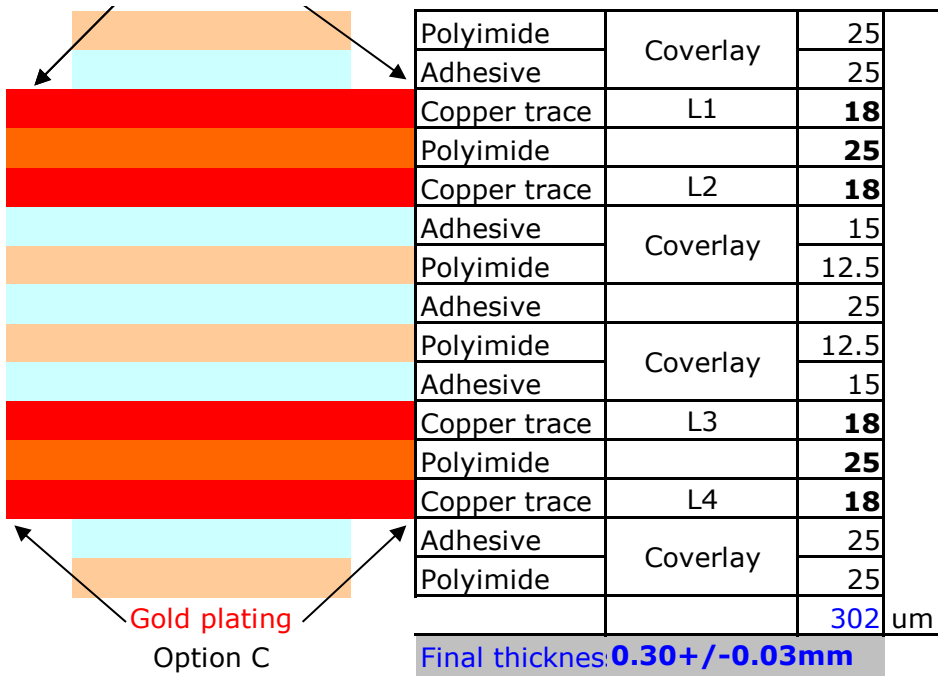
Polyimide	Coverlay	25
Adhesive		25
Copper trace	L1	<b>35</b>
Adhesive		20
Polyimide		<b>25</b>
Adhesive		25
Copper trace	L2	<b>35</b>
Polyimide		25
Copper trace	L3	<b>35</b>
Adhesive		25
Polyimide		<b>25</b>
Adhesive		20
Copper trace	L4	<b>35</b>
Adhesive	Coverlay	25
Polyimide		25
		<b>405</b> um

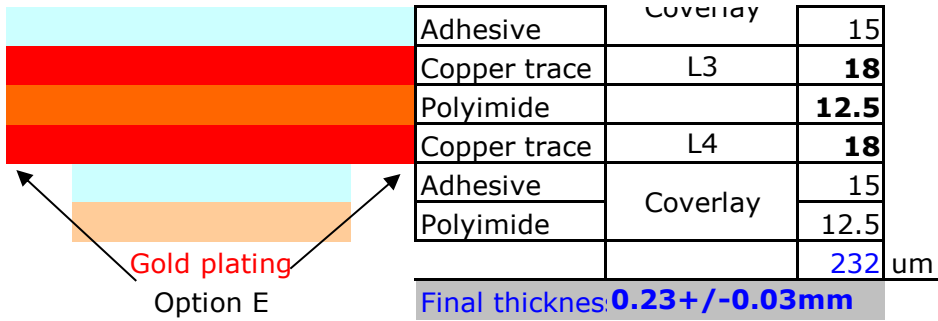
**Option A (less popular)** Final thickness: **0.41 +/- 0.05mm**

Polyimide	Coverlay	25
Adhesive		25
Copper trace	L1	<b>18</b>
Polyimide		<b>25</b>
Copper trace	L2	<b>18</b>
Adhesive	Coverlay	25
Polyimide		25
Adhesive		25
Polyimide	Coverlay	25
Adhesive		25
Copper trace	L3	<b>18</b>
Polyimide		<b>25</b>
Copper trace	L4	<b>18</b>
Adhesive	Coverlay	25
Polyimide		25
		<b>347</b> um

**Option B** Final thickness: **0.35 +/- 0.03mm**

Gold plating





Adhesive	Coverlay	15
Copper trace	L3	<b>18</b>
Polyimide		<b>12.5</b>
Copper trace	L4	<b>18</b>
Adhesive	Coverlay	15
Polyimide		12.5
		<b>232</b> um

Final thickness: **0.23 +/- 0.03 mm**

Gold plating  
Option E



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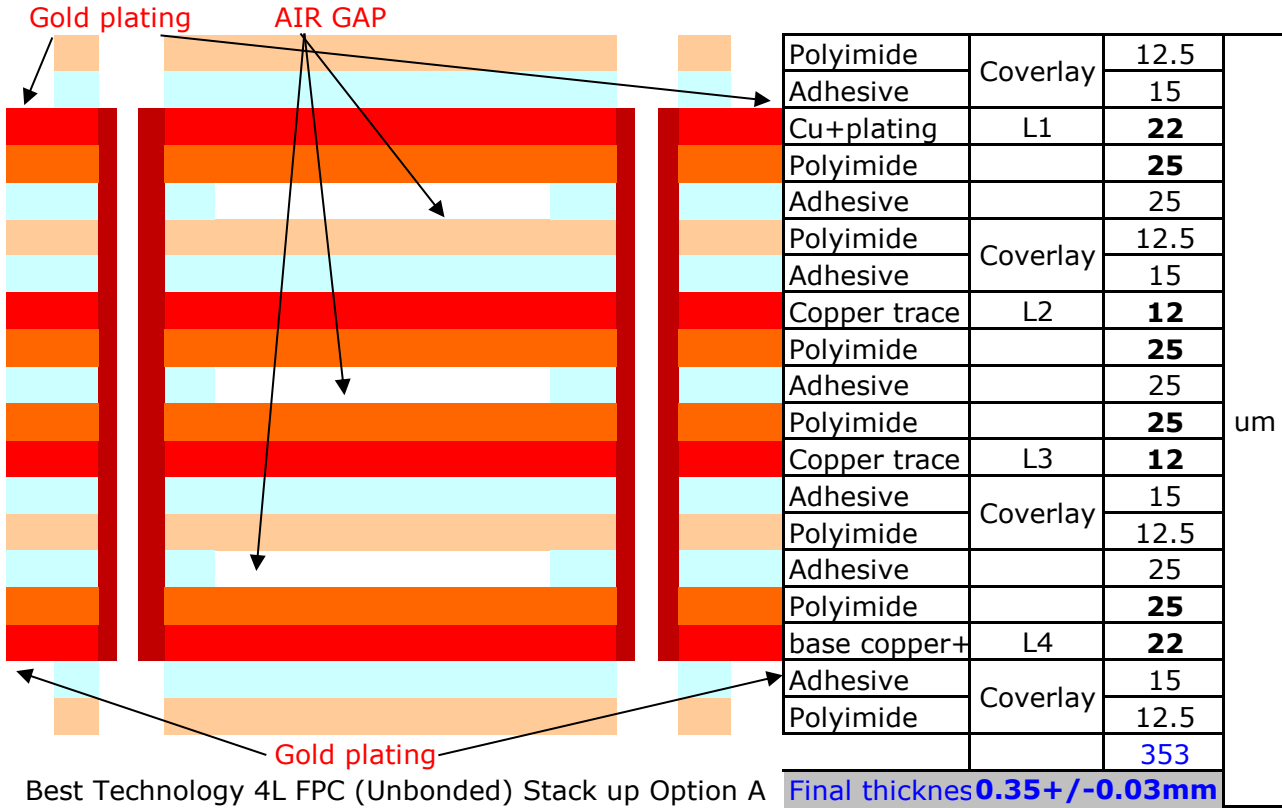
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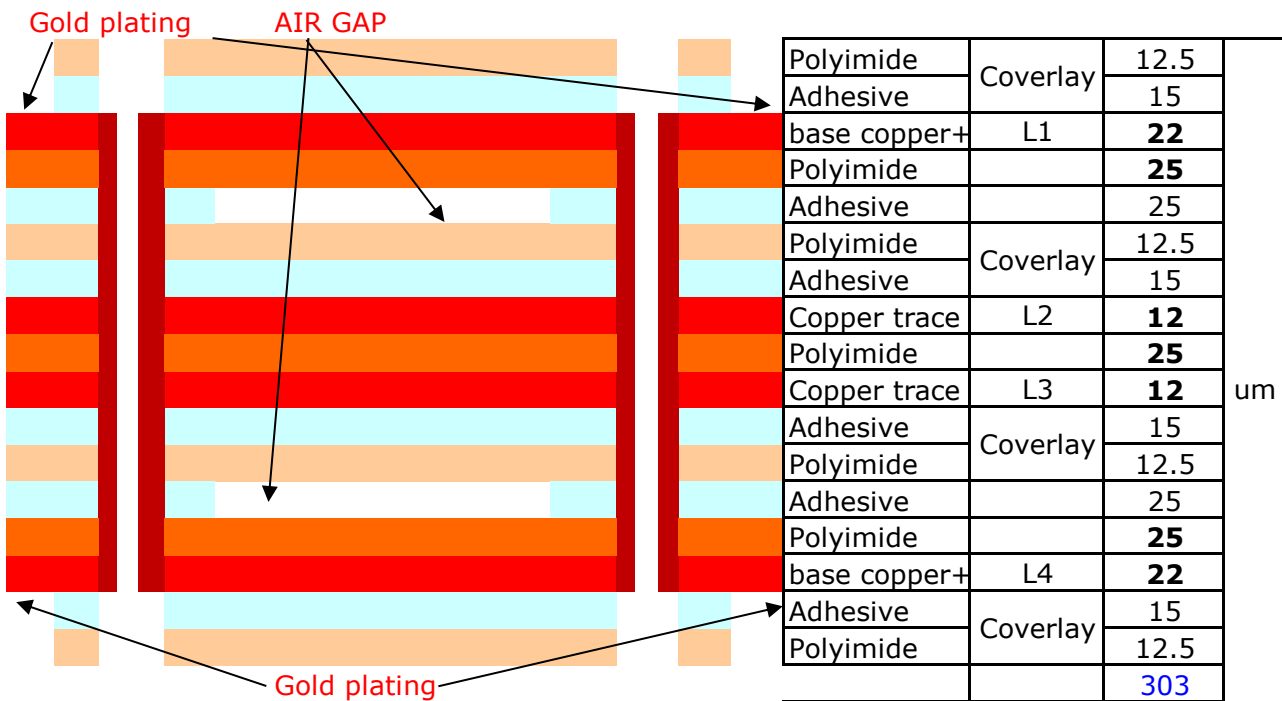
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## Stack Up of 4 Layer Flex Circuit with Unbonded Area (Air Gap)

(Avoid Via/PTH in air gap area and keep at least 1.0mm from edge of air gap)



Best Technology 4L FPC (Unbonded) Stack up Option A  
4 x 1L FPC, suitable for LW/LS <=4mil



Best Technology 4L FPC (Unbonded) Stack Up (Option B)  
1L+2L+1L FPC, suitable for LW/LS <=4mil

