

Electromagnetic Fields Laboratory

Exercise 3

Group

Date and time:

.....

Electric/magnetic coupling in two parallel cables

f	U_s	$UL+UC+U0$	$UL+U0$	$U0$	UL	UC
100kHz						
200kHz						
400kHz						
600kHz						
800kHz						
1MHz						
1.2MHz						
1.5MHz						
2MHz						
2.5MHz						
3MHz						

Coupling in twisted pair

f	U_s	U_i open	U_i one side connected	U_i all connected
100kHz				
200kHz				
400kHz				
600kHz				
800kHz				
1MHz				
1.2MHz				
1.5MHz				
2MHz				
2.5MHz				
3MHz				

Coupling in ribbon cable

f=500kHz

<i>Rod no.</i>	<i>No ground</i>	<i>2-nd grounded</i>
2		-
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

Coupling in ribbon cable

$f=2\text{MHz}$

<i>Rod no.</i>	<i>No ground</i>	<i>2-nd grounded</i>
2		-
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		