

Maximum transmission distance of DIMEX DSL modems in case of strong noise environment

Noise level:

Frequency range 320 Hz - 1 kHz: > 17uV

Frequency range 10 kHz - 1500 kHz: > 0.3uV

Line rate, kbps	0,4mm cable				0,5 mm cable				0,65 mm cable				
	Electrical Characteristics:				Electrical Characteristics:				Electrical Characteristics:				
	Loop resistance, Ohm/km: 180 +/- 12				Loop resistance, Ohm/km: 180 +/- 12				Loop resistance, Ohm/km: 180 +/- 12				
	Insulation, MOhm*km: > 5000				Insulation, MOhm*km: > 5000				Insulation, MOhm*km: > 5000				
	Maximum Pair Capacitance, nF: 45 +/- 8				Maximum Pair Capacitance, nF: 45 +/- 8				Maximum Pair Capacitance, nF: 45 +/- 8				
Loop Attenuation, dB/km: 11.12 (@150 kHz)				Loop Attenuation, dB/km: 7,64 (@150 kHz)				Loop Attenuation, dB/km: 4.62 (@150 kHz)					
Equipment Type		Equipment Type		Equipment Type		Equipment Type		Equipment Type		Equipment Type			
2 wires		4 wires		2 wires		4 wires		2 wires		4 wires			
Distance, km	A @150kHz dB	Distance, km	A @150kHz dB	A @150kHz dB	Distance, km	A @150kHz dB	Distance, km	A @150kHz dB	Distance, km	A @150kHz dB	Distance, km	A @150kHz dB	
144	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
200	6,9	76,4	6,9	76,4	10,0	76,4	10,0	76,4	14,4	76,4	14,4	76,4	
272	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
392	5,4	60,6	5,4	60,6	7,9	60,6	7,9	60,6	11,4	60,6	11,4	60,6	
400	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
520	4,7	52,6	4,7	52,6	6,9	52,6	6,9	52,6	9,9	52,6	9,9	52,6	
528	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
776	4,1	45,1	4,1	45,1	5,9	45,1	5,9	45,1	8,5	45,1	8,5	45,1	
784	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
1032	3,6	40,5	3,6	40,5	5,3	40,5	5,3	40,5	7,6	40,5	7,6	40,5	
1040	-----	-----	Note!	-----	-----	Note!	-----	-----	-----	-----	Note!	-----	
1288	3,4	37,4	For 4 wires products bitrate of network interface is two times higher than linerate.	-----	-----	4,9	37,4	For 4 wires products bitrate of network interface is two times higher than linerate.	-----	-----	7,1	37,4	
1544	2,9	32,1		-----	-----	4,2	32,1		-----	-----	6,1	32,1	For 4 wires products bitrate of network interface is two times higher than linerate.
1552	-----	-----		-----	-----	-----	-----		-----	-----	-----	-----	-----
2056	2,7	30,1		-----	-----	3,9	30,1		-----	-----	5,7	30,1	-----
2064	-----	-----		-----	-----	-----	-----		-----	-----	-----	-----	-----
2312	-----	-----		-----	-----	-----	-----		-----	-----	-----	-----	-----
2320	-----	-----		-----	-----	-----	-----		-----	-----	-----	-----	-----

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Frequency range 10 kHz - 1500 kHz: > 0.3uV

Line rate, kbps	0,9 mm cable			
	Electrical Charachteristics:			
	Loop resistance, Ohm/km: 56,8 +/- 15			
	Insulation, MOhm*km: > 10000			
Maximum Pair Capacitance, nF: 35 +/- 3				
Loop Attenuation, dB/km: 3,5 (@150 kHz)				
Equipment Type				
2 wires		4 wires		
Distance, km	A @150kHz dB	Distance, km	A @150kHz dB	
144	-----	-----	-----	-----
200	21,8	76,4	21,8	76,4
272	-----	-----	-----	-----
392	17,3	60,6	17,3	60,6
400	-----	-----	-----	-----
520	15,0	52,6	15,0	52,6
528	-----	-----	-----	-----
776	12,9	45,1	12,9	45,1
784	-----	-----	-----	-----
1032	11,6	40,5	11,6	40,5
1040	-----	-----	Note! For 4 wires products bitrate of network interface is two times higher than linerate.	
1288	10,7	37,4		
1544	9,2	32,1		
1552	-----	-----		
2056	8,6	30,1		
2064	-----	-----		
2312	-----	-----		
2320	-----	-----		

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Line rate, kbps	1,2 mm cable			
	Electrical Characteristics:			
	Loop resistance, Ohm/km: 31.7 +/- 7			
	Insulation, MOhm*km: > 10000			
Maximum Pair Capacitance, nF: 25.6 +/- 0.8				
Loop Attenuation, dB/km: 1.98 (@150 kHz)				
Equipment Type				
2 wires		4 wires		
Distance, km	A @150kHz dB	Distance, km	A @150kHz dB	
144	-----	-----	-----	-----
200	38,6	76,4	38,6	76,4
272	-----	-----	-----	-----
392	30,6	60,6	30,6	60,6
400	-----	-----	-----	-----
520	26,6	52,6	26,6	52,6
528	-----	-----	-----	-----
776	22,8	45,1	22,8	45,1
784	-----	-----	-----	-----
1032	20,5	40,5	20,5	40,5
1040	-----	-----	Note! For 4 wires products bitrate of network interface is two times higher than linerate.	
1288	18,9	37,4		
1544	16,2	32,1		
1552	-----	-----		
2056	15,2	30,1		
2064	-----	-----		
2312	-----	-----		
2320	-----	-----		