

TTC スペクトル管理SWG寄書
REFERENCE VALUES

SMS-05-GSV-04
GlobespanVirata Inc.

Dist (km)	TCM-ISDN		G.992.1 Annex A (FDM)		G.992.2 Annex A (LITE)		G.992.1 Annex C				G.992.2 Annex C			
	DS	US	DS	US	DS	US	DBM		FBM		DBM		FBM	
							DS	US	DS	US	DS	US	DS	US
0.5	144	144	7104	832	3008	832	7104	832	2624	288	3008	832	1088	288
0.75	144	144	6784	832	2944	832	6912	832	2592	288	2944	832	1088	288
1	144	144	5952	832	2624	832	6368	832	2528	288	2752	832	1088	288
1.25	144	144	4896	800	2272	800	5696	800	2496	288	2528	800	1088	288
1.5	144	144	3840	768	1824	768	5024	800	2432	288	2272	800	1088	288
1.75	144	144	2496	736	1440	736	4192	768	2400	288	2016	768	1088	288
2	144	144	1696	704	960	704	3680	736	2336	288	1696	736	1088	288
2.25	144	144	1088	640	640	640	3296	704	2240	288	1504	704	1088	288
2.5	144	144	704	576	352	576	3008	672	2080	288	1312	672	1056	288
2.75	144	144	480	512	160	512	2720	640	1856	288	1216	640	1056	288
3	144	144	320	448	96	448	2368	576	1536	288	1184	576	1024	288
3.25	144	144	224	352	64	352	1984	512	1280	288	1152	512	992	288
3.5	144	0	128	288	32	288	1632	480	1056	288	1120	480	928	288
3.75	0	0	64	224	32	224	1344	448	832	256	1088	448	832	256
4	0	0	32	192	0	192	1088	416	640	256	1024	416	704	256
4.25	0	0	0	160	0	160	928	416	480	256	928	416	576	256
4.5	0	0	0	128	0	128	768	384	352	224	832	384	416	224
4.75	0	0	0	96	0	96	608	352	224	224	704	352	288	224
5	0	0	0	64	0	64	416	352	128	224	544	352	192	224

both victim and disturber masks are flat
modulus enable
heavy mode
Min bit loading =2
Max bit loading =8
echo rejection = -500dB
Coding Gain =3 dB
Margin Up =4 dB
Margin Down =6 dB
Number of Interferers =5

GSV

1-Down : Quad-FDM, Up : FDM-shape (Intra)

Table with 13 columns: Dist, TCM-ISDN, G.992.1 Annex A (FDM), G.992.2 Annex A, G.992.1 Annex C (DBM, FBM), G.992.2 Annex C (DBM, FBM). Rows include length (0.5 to 5000) and various frequency/shape parameters.

SEI

1-Down : Quad-FDM, Up : FDM-shape (Intra)

Table with 13 columns: Length(m), TCM-ISDN, G.992.1 Annex A (Down, Up), G.992.2 Annex A (Down, Up), G.992.1 Annex C (DBM, FBM), G.992.2 Annex C (DBM, FBM). Rows include length (500 to 5000) and various frequency/shape parameters.

GSV-SEI 比較

Comparison table between GSV and SEI for various parameters. Columns include Dist, TCM-ISDN, G.992.1 Annex A, G.992.2 Annex A, G.992.1 Annex C (DBM, FBM), G.992.2 Annex C (DBM, FBM). Rows include length (500 to 5000).

DELTA Ref-GSV

Table with 13 columns: Dist, TCM-ISDN, G.992.1 Annex A (FDM), G.992.2 Annex A, G.992.1 Annex C (DBM, FBM), G.992.2 Annex C (DBM, FBM). Rows include length (0.5 to 5000) and various frequency/shape parameters.

NEC

1-Down : Quad-FDM, Up : FDM-shape (Intra)

Table with 13 columns: Length(m), TCM-ISDN, G.992.1 Annex A (Down, Up), G.992.2 Annex A (Down, Up), G.992.1 Annex C (DBM, FBM), G.992.2 Annex C (DBM, FBM). Rows include length (500 to 5000) and various frequency/shape parameters.

GSV-NEC 比較

Comparison table between GSV and NEC for various parameters. Columns include Length(m), TCM-ISDN, G.992.1 Annex A, G.992.2 Annex A, G.992.1 Annex C (DBM, FBM), G.992.2 Annex C (DBM, FBM). Rows include length (500 to 5000).

GSV

Dist	TCM-ISDN		G.992.1 Annex A (FDM)				G.992.2 Annex A				G.992.1 Annex C				G.992.2 Annex C			
	DS	US	DS	US	DS	US	DBM		FBM		DS	US	DBM		FBM		DS	US
							Down	Up	Down	Up			Down	Up	Down	Up		
0.5	144	144	7104	832	3008	832	7104	832	2624	288	3008	832	1088	288				
0.75	144	144	7008	832	3008	832	7008	832	2592	288	3008	832	1088	288				
1	144	144	6880	832	3008	832	6880	832	2528	288	3008	832	1088	288				
1.25	144	144	6784	832	3008	832	6784	832	2496	288	3008	832	1088	288				
1.5	144	144	6624	832	2976	832	6624	832	2432	288	2976	832	1088	288				
1.75	144	144	6464	832	2976	832	6464	832	2368	288	2976	832	1088	288				
2	144	144	6304	832	2912	832	6304	832	2336	288	2912	832	1088	288				
2.25	144	144	6080	832	2848	832	6080	832	2240	288	2848	832	1056	288				
2.5	144	144	5760	832	2752	832	5760	832	2144	288	2752	832	1024	288				
2.75	144	144	5280	800	2624	800	5280	800	1952	288	2624	800	960	288				
3	144	144	4608	800	2496	800	4608	800	1696	288	2496	800	928	288				
3.25	144	144	3680	800	2336	800	3680	800	1344	288	2336	800	864	288				
3.5	0	0	2848	768	2112	768	2848	768	1056	288	2112	768	768	288				
3.75	0	0	2144	736	1824	736	2144	736	788	288	1824	736	672	288				
4	0	0	1536	736	1504	736	1536	736	544	256	1504	736	544	256				
4.25	0	0	1056	704	1184	704	1056	704	384	256	1184	704	416	256				
4.5	0	0	704	672	896	672	704	672	256	224	896	672	320	224				
4.75	0	0	416	640	576	640	416	640	128	224	576	640	192	224				
5	0	0	192	608	320	608	192	608	64	224	320	608	96	224				

DELTA Ref-GSV

Dist	TCM-ISDN		G.992.1 Annex A (FDM)				G.992.2 Annex A				G.992.1 Annex C				G.992.2 Annex C			
	DS	US	DS	US	DS	US	DBM		FBM		DS	US	DBM		FBM		DS	US
							Down	Up	Down	Up			Down	Up	Down	Up		
0.5	0	0	0	0	0	0	-96	-96	-64	0	0	-64	0	0				
0.75	0	0	-224	-224	-64	-64	-96	-96	-64	0	0	-64	0	0				
1	0	0	-928	-928	-384	-384	-512	-512	0	0	-256	0	0					
1.25	0	0	-1888	-32	-736	-32	-1088	-32	0	0	-480	-32	0					
1.5	0	0	-2784	-64	-1152	-64	-1600	-32	0	0	-704	-32	0					
1.75	0	0	-3968	-96	-1536	-96	-2272	-64	32	0	-960	-64	0					
2	0	0	-4608	-128	-1824	-128	-2624	-96	0	0	-1216	-96	0					
2.25	0	0	-4992	-192	-2208	-192	-2784	-128	0	0	-1344	-128	32					
2.5	0	0	-5056	-256	-2400	-256	-2752	-160	-64	0	-1440	-160	32					
2.75	0	0	-4800	-288	-2484	-288	-2560	-160	-96	0	-1408	-160	96					
3	0	0	-4288	-352	-2400	-352	-2240	-224	-160	0	-1312	-224	96					
3.25	0	0	-3456	-448	-2272	-448	-1696	-288	-64	0	-1164	-288	128					
3.5	144	144	-2720	-480	-2080	-480	-1216	-288	0	0	-992	-288	160					
3.75	0	0	-2080	-512	-1792	-512	-800	-288	64	0	-736	-288	160					
4	0	0	-1504	-544	-1504	-544	-448	-320	96	0	-480	-320	160					
4.25	0	0	-1056	-544	-1184	-544	-448	-288	96	0	-256	-288	160					
4.5	0	0	-704	-544	-896	-544	-64	-288	96	0	-64	-288	96					
4.75	0	0	-416	-544	-576	-544	192	-288	96	0	128	-288	96					
5	0	0	-192	-544	-320	-544	224	-256	64	0	224	-256	96					

SEI

Distance [m]	TCM-ISDN		G.992.1 Annex A				G.992.2 Annex A				G.992.1 Annex C				G.992.2 Annex C			
	Down	Up	Down	Up	Down	Up	DBM		FBM		Down	Up	DBM		FBM			
							Down	Up	Down	Up			Down	Up	Down	Up		
500																		
750																		
1000																		
1250																		
1500																		
1750																		
2000																		
2250																		
2500																		
2750																		
3000																		
3250																		
3500																		
3750																		
4000																		
4250																		
4500																		
4750																		
5000																		

NEC

Length [m]	TCM-ISDN		G.992.1 Annex A				G.992.2 Annex A				G.992.1 Annex C				G.992.2 Annex C			
	Down	Up	Down	Up	Down	Up	DBM		FBM		Down	Up	DBM		FBM			
							Down	Up	Down	Up			Down	Up	Down	Up		
500	144	144	7104	832	3008	832	7104	832	2624	288	3008	832	1088	288				
750	144	144	7008	832	3008	832	7008	832	2592	288	3008	832	1088	288				
1000	144	144	6880	832	3008	832	6880	832	2528	288	3008	832	1088	288				
1250	144	144	6784	832	3008	832	6784	832	2496	288	3008	832	1088	288				
1500	144	144	6624	832	2976	832	6624	832	2432	288	2976	832	1088	288				
1750	144	144	6464	832	2976	832	6464	832	2368	288	2976	832	1088	288				
2000	144	144	6304	832	2912	832	6304	832	2336	288	2912	832	1088	288				
2250	144	144	6080	832	2848	832	6080	832	2240	288	2848	832	1056	288				
2500	144	144	5760	832	2752	832	5760	832	2144	288	2752	832	1024	288				
2750	144	144	5280	800	2624	800	5280	800	1952	288	2624	800	960	288				
3000	144	144	4608	800	2496	800	4608	800	1696	288	2496	800	928	288				
3250	144	144	3680	800	2336	800	3680	800	1344	288	2336	800	864	288				
3500	0	0	2848	768	2112	768	2848	768	1056	288	2112	768	768	288				
3750	0	0	2144	736	1824	736	2144	736	788	288	1824	736	672	288				
4000	0	0	1536	736	1504	736	1536	736	544	256	1504	736	544	256				
4250	0	0	1056	704	1184	704	1056	704	384	256	1184	704	416	256				
4500	0	0	704	672	896	672	704	672	256	224	896	672	320	224				
4750	0	0	416	640	576	640	416	640	128	224	576	640	192	224				
5000	0	0	192	608	320	608	192	608	64	224	320	608	96	224				

GSV-SEI 比較

Length [m]	TCM-ISDN		G.992.1 Annex A				G.992.2 Annex A				G.992.1 Annex C				G.992.2 Annex C			
	Down	Up	Down	Up	Down	Up	DBM		FBM		Down	Up	DBM		FBM			
							Down	Up	Down	Up			Down	Up	Down	Up		
500	144	144	7104	832	3008	832	7104	832	2624	288	3008	832	1088	288				
750	144	144	7008	832	3008	832	7008	832	2592	288	3008	832	1088	288				
1000	144	144	6880	832	3008	832	6880	832	2528	288	3008	832	1088	288				
1250	144	144	6784	832	3008	832	6784	832	2496	288	3008	832	1088	288				
1500	144	144	6624	832	2976	832	6624	832	2432	288	2976	832	1088	288				
1750	144	144	6464	832	2976	832	6464	832	2368	288	2976	832	1088	288				
2000	144	144	6304	832	2912	832	6304	832	2336	288	2912	832	1088	288				
2250	144	144	6080	832	2848	832	6080	832	2240	288	2848	832	1056	288				
2500	144	144	5760	832	2752	832	5760	832	2144	288	2752	832	1024	288				
2750	144	144	5280	800	2624	800	5280	800	1952	288	2624	800	960	288				
3000	144	144	4608	800	2496	800	4608	800	1696	288	2496	800	928	288				
3250	144	144	3680	800	2336	800	3680	800	1344	288	2336	800	864	288				
3500	0	0	2848	768	2112	768	2848	768	1056	288	2112	768	768	288				
3750	0	0	2144	736	1824	736	2144	736	788	288	1824							

GSV

3b-Quad-FDM-GSV-EU

Table with 19 columns: Dist, TCM-ISDN (DS, US), G.992.1 Annex A (DS, US), G.992.2 Annex A (DS, US), G.992.1 Annex C (DS, US), G.992.2 Annex C (DS, US). Rows include distances from 0.5 to 5.0 km.

DELTA Ref-GSV

Table with 19 columns: Dist, TCM-ISDN (DS, US), G.992.1 Annex A (DS, US), G.992.2 Annex A (DS, US), G.992.1 Annex C (DS, US), G.992.2 Annex C (DS, US). Rows include distance differences from 0.5 to 5.0 km.

SEI

3b-Quad-FDM-GSV-EU

Table with 19 columns: 距離[m], TCM-ISDN (Down, Up), G.992.1 Annex A (Down, Up), G.992.2 Annex A (Down, Up), G.992.1 Annex C (Down, Up), G.992.2 Annex C (Down, Up). Rows include distances from 500 to 5000 m.

NEC

3b-Quad-FDM-GSV-EU

Table with 19 columns: Length[m], TCM-ISDN (Down, Up), G.992.1 Annex A (Down, Up), G.992.2 Annex A (Down, Up), G.992.1 Annex C (Down, Up), G.992.2 Annex C (Down, Up). Rows include lengths from 500 to 5000 m.

GSV-SEI 比較

Comparison table between GSV and SEI data, with columns for Dist, TCM-ISDN, G.992.1 Annex A, G.992.2 Annex A, G.992.1 Annex C, G.992.2 Annex C. Rows include distances from 500 to 5000 m.

GSV-NEC 比較

Comparison table between GSV and NEC data, with columns for Length[m], TCM-ISDN, G.992.1 Annex A, G.992.2 Annex A, G.992.1 Annex C, G.992.2 Annex C. Rows include lengths from 500 to 5000 m.

GSV

4-Annex I DBM-OL

Dist	TCM-ISDN		G.992.1 Annex A				G.992.2 Annex A				G.992.1 Annex C				G.992.2 Annex C				
	(FDM)		DS		US		DS		US		DS		US		DS		US		
	DS	US	DS	US	DS	US	DS	US	DS	US	DS	US	DS	US	DS	US	DS	US	
0.5	144	144	7104	832	3008	832	7104	832	2624	288	3008	832	1088	288	288				
0.75	144	144	7008	832	3008	832	7008	832	2592	288	3008	832	1088	288	288				
1	144	144	6880	832	3008	832	6880	832	2528	288	3008	832	1088	288	288				
1.25	144	144	6784	832	3008	832	6784	832	2496	288	3008	832	1088	288	288				
1.5	144	144	6624	832	2976	832	6624	832	2432	288	2976	832	1088	288	288				
1.75	144	144	6464	800	2976	800	6464	800	2368	288	2976	800	1088	288	288				
2	144	144	6304	768	2912	768	6304	768	2336	288	2912	768	1088	288	288				
2.25	144	144	6080	736	2848	736	6080	736	2240	256	2848	736	1056	256	256				
2.5	144	144	5760	672	2752	672	5760	672	2144	256	2752	672	1024	256	256				
2.75	144	144	5280	608	2624	608	5280	608	1952	224	2624	608	960	224	224				
3	144	144	4608	544	2496	544	4608	544	1696	192	2496	544	928	192	192				
3.25	144	144	3680	480	2336	480	3680	480	1344	160	2336	480	864	160	160				
3.5	0	0	2848	384	2112	384	2848	384	1056	128	2112	384	768	128	128				
3.75	0	0	2144	288	1824	288	2144	288	768	96	1824	288	672	96	96				
4	0	0	1536	224	1504	224	1536	224	544	64	1504	224	544	64	64				
4.25	0	0	1056	160	1184	160	1056	160	384	64	1184	160	416	64	64				
4.5	0	0	704	128	896	128	704	128	256	32	896	128	320	32	32				
4.75	0	0	416	96	576	96	416	96	128	32	576	96	192	32	32				
5	0	0	192	64	320	64	192	64	64	0	320	64	96	0	0				

DELTA Ref-GSV

Dist	TCM-ISDN		G.992.1 Annex A				G.992.2 Annex A				G.992.1 Annex C				G.992.2 Annex C				
	(FDM)		DS		US		DS		US		DS		US		DS		US		
	DS	US	DS	US	DS	US	DS	US	DS	US	DS	US	DS	US	DS	US	DS	US	
0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
0.75	0	0	-224	-64	-1536	-64	-2272	-32	32	0	-960	-32	0	0	-64	0	0	0	0
1	0	0	-928	0	-384	0	-512	0	0	0	-256	0	0	0	0	0	0	0	0
1.25	0	0	-1888	-32	-736	-32	-1088	-32	0	0	-480	-32	0	0	0	0	0	0	0
1.5	0	0	-2784	-64	-1152	-64	-1600	-32	0	0	-704	-32	0	0	0	0	0	0	0
1.75	0	0	-3888	-64	-1536	-64	-2272	-32	32	0	-960	-32	0	0	0	0	0	0	0
2	0	0	-4608	-64	-1984	-64	-2624	-32	0	0	-1216	-32	0	0	0	0	0	0	0
2.25	0	0	-4992	-96	-2208	-96	-2784	-32	0	32	-1344	-32	32	32	32				
2.5	0	0	-5056	-96	-2400	-96	-2752	0	-64	32	-1440	0	32	32	32				
2.75	0	0	-4800	-96	-2464	-96	-2560	32	-96	64	-1408	32	96	64	64				
3	0	0	-4288	-96	-2400	-96	-2240	32	-160	96	-1312	32	96	96	96				
3.25	0	0	-3456	-128	-2272	-128	-1696	32	-64	128	-1164	32	128	128	128				
3.5	144	0	-2720	-96	-2080	-96	-1216	96	0	160	-992	96	160	160	160				
3.75	0	0	-2080	-64	-1792	-64	-800	160	64	160	-736	160	160	160	160				
4	0	0	-1504	-32	-1504	-32	-448	192	96	192	-480	192	160	192	192				
4.25	0	0	-1056	0	-1184	0	-128	256	96	192	-256	256	160	192	192				
4.5	0	0	-704	0	-896	0	-64	256	96	192	-64	256	96	192	192				
4.75	0	0	-416	0	-576	0	-192	256	96	192	-128	256	96	192	192				
5	0	0	-192	0	-320	0	-224	288	64	224	-224	288	96	224	224				

SEI

4-Annex I DBM-OL

距離[m]	TCM-ISDN		G.992.1 Annex A				G.992.2 Annex A				G.992.1 Annex C				G.992.2 Annex C				
	DBM		Down		Up		Down		Up		Down		Up		Down		Up		
	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	
500	144	144	7104	832	3008	832	7104	832	2624	288	3008	832	1088	288	288				
750	144	144	7008	832	3008	832	7008	832	2592	288	3008	832	1088	288	288				
1000	144	144	6880	832	3008	832	6880	832	2528	288	3008	832	1088	288	288				
1250	144	144	6784	832	3008	832	6784	832	2496	288	3008	832	1088	288	288				
1500	144	144	6624	832	2976	832	6624	832	2432	288	2976	832	1088	288	288				
1750	144	144	6464	800	2976	800	6464	800	2368	288	2976	800	1088	288	288				
2000	144	144	6304	768	2912	768	6304	768	2336	288	2912	768	1088	288	288				
2250	144	144	6080	736	2848	736	6080	736	2240	256	2848	736	1056	256	256				
2500	144	144	5760	672	2752	672	5760	672	2144	256	2752	672	1024	256	256				
2750	144	144	5280	608	2624	608	5280	608	1952	224	2624	608	960	224	224				
3000	144	144	4608	544	2496	544	4608	544	1696	192	2496	544	928	192	192				
3250	144	144	3680	480	2336	480	3680	480	1344	160	2336	480	864	160	160				
3500	0	0	2848	384	2112	384	2848	384	1056	128	2112	384	768	128	128				
3750	0	0	2144	288	1824	288	2144	288	768	96	1824	288	672	96	96				
4000	0	0	1536	224	1504	224	1536	224	544	64	1504	224	544	64	64				
4250	0	0	1056	160	1184	160	1056	160	384	64	1184	160	416	64	64				
4500	0	0	704	128	896	128	704	128	256	32	896	128	320	32	32				
4750	0	0	416	96	576	96	416	96	128	32	576	96	192	32	32				
5000	0	0	192	64	320	64	192	64	64	0	320	64	96	0	0				

NEC

4-Annex I DBM-OL

Length[m]	TCM-ISDN		G.992.1 Annex A				G.992.2 Annex A				G.992.1 Annex C				G.992.2 Annex C				
	DBM		Down		Up		Down		Up		Down		Up		Down		Up		
	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	
500	144	144	7104	832	3008	832	7104	832	2624	288	3008	832	1088	288	288				
750	144	144	7008	832	3008	832	7008	832	2592	288	3008	832	1088	288	288				
1000	144	144	6880	832	3008	832	6880	832	2528	288	3008	832	1088	288	288				
1250	144	144	6784	832	3008	832	6784	832	2496	288	3008	832	1088	288	288				
1500	144	144	6624	832	2976	832	6624	832	2432	288	2976	832	1088	288	288				
1750	144	144	6464	800	2976	800	6464	800	2368	288	2976	800	1088	288	288				
2000	144	144	6304	768	2912	768	6304	768	2336	288	2912	768	1088	288	288				
2250	144	144	6080	736	2848	736	6080	736	2240	256	2848	736	1056	256	256				
2500	144	144	5760	672	2752	672	5760	672	2144	256	2752	672	1024	256	256				
2750	144	144	5280	608	2624	608	5280	608	1952	224	2624	608	960	224	224				
3000	144	144	4608	544	2496	544	4608	544	1696	192	2496	544	928	192	192				
3250	144	144	3680	480	2336	480	3680	480	1344	160	2336	480	864	160	160				
3500	0	0	2848	384	2112	384	2848	384	1056	128	2112	384	768	128	128				
3750	0	0	2144	288	1824	288	2144	288	768	96	1824	288	672	96	96</				

GSV

Table with 15 columns: Dist, TCM-ISDN (DS, US, US), G.992.1 Annex A (DS, US), G.992.2 Annex A (DS, US), G.992.1 Annex C (DBM, FBM, DS, US, DS, US, DS, US), G.992.2 Annex C (DBM, FBM, DS, US). Rows include values for 0.5, 0.75, 1, 1.25, 1.5, 1.75, 2, 2.25, 2.5, 2.75, 3, 3.25, 3.5, 3.75, 4, 4.25, 4.5, 4.75, 5.

SEI

Table with 15 columns: Length[m], TCM-ISDN (Down, Up), G.992.1 Annex A (Down, Up), G.992.2 Annex A (Down, Up), G.992.1 Annex C (DBM, FBM, Down, Up, Down, Up, Down, Up), G.992.2 Annex C (DBM, FBM, Down, Up, Down, Up). Rows include values for 500, 750, 1000, 1250, 1500, 1750, 2000, 2250, 2500, 2750, 3000, 3250, 3500, 3750, 4000, 4250, 4500, 4750, 5000.

GSV-SEI 比較

Comparison table between GSV and SEI data. Columns include Dist, TCM-ISDN, G.992.1 Annex A, G.992.2 Annex A, G.992.1 Annex C, and G.992.2 Annex C. All values are 0.

DELTA Ref-GSV

Table with 15 columns: Dist, TCM-ISDN (DS, US, US), G.992.1 Annex A (DS, US), G.992.2 Annex A (DS, US), G.992.1 Annex C (DBM, FBM, DS, US, DS, US, DS, US), G.992.2 Annex C (DBM, FBM, DS, US). Rows include values for 0.5, 0.75, 1, 1.25, 1.5, 1.75, 2, 2.25, 2.5, 2.75, 3, 3.25, 3.5, 3.75, 4, 4.25, 4.5, 4.75, 5.

NEC

Table with 15 columns: Length[m], TCM-ISDN (Down, Up), G.992.1 Annex A (Down, Up), G.992.2 Annex A (Down, Up), G.992.1 Annex C (DBM, FBM, Down, Up, Down, Up, Down, Up), G.992.2 Annex C (DBM, FBM, Down, Up, Down, Up). Rows include values for 500, 750, 1000, 1250, 1500, 1750, 2000, 2250, 2500, 2750, 3000, 3250, 3500, 3750, 4000, 4250, 4500, 4750, 5000.

GSV-NEC 比較

Comparison table between GSV and NEC data. Columns include Length[m], TCM-ISDN, G.992.1 Annex A, G.992.2 Annex A, G.992.1 Annex C, and G.992.2 Annex C. All values are 0.

GSV

6-Annex C XOL															
Dist	TCM-ISDN			G.992.1 Annex A (FDM)			G.992.2 Annex A			G.992.1 Annex C			G.992.2 Annex C		
	DS		US	DS		US	DS		US	DS		US	DS		US
	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	
0.5	144	144	144	7104	832	3008	832	7104	832	2624	288	3008	832	1088	288
0.75	144	144	144	7008	832	3008	832	7008	832	2592	288	3008	832	1088	288
1	144	144	144	6980	832	3008	832	6980	832	2528	288	3008	832	1088	288
1.25	144	144	144	6784	832	3008	832	6784	832	2496	288	3008	832	1088	288
1.5	144	144	144	6624	832	2976	832	6624	832	2432	288	2976	832	1088	288
1.75	144	144	144	6464	800	2976	800	6464	800	2368	288	2976	800	1088	288
2	144	144	144	6304	800	2912	800	6304	800	2336	288	2912	800	1088	288
2.25	144	144	144	6080	768	2848	768	6080	800	2240	288	2848	800	1056	288
2.5	144	144	144	5760	736	2752	736	5760	768	2144	288	2752	768	1024	288
2.75	144	144	144	5280	704	2624	704	5280	736	1952	288	2624	736	960	288
3	144	144	144	4608	672	2496	672	4608	704	1696	288	2496	704	928	288
3.25	144	144	144	3680	640	2336	640	3680	672	1344	288	2336	672	864	288
3.5	0	0	0	2848	576	2112	576	2848	640	1056	256	2112	640	768	256
3.75	0	0	0	2144	512	1824	512	2144	608	788	256	1824	608	672	256
4	0	0	0	1536	480	1504	480	1536	544	256	1504	576	544	256	
4.25	0	0	0	1056	448	1184	448	1056	512	384	256	1184	512	416	256
4.5	0	0	0	704	384	896	384	704	480	256	224	896	480	320	224
4.75	0	0	0	416	352	576	352	416	448	128	224	576	448	192	224
5	0	0	0	192	320	320	320	192	416	64	224	320	416	96	224

DELTA Ref-GSV

Dist	TCM-ISDN			G.992.1 Annex A (FDM)			G.992.2 Annex A			G.992.1 Annex C			G.992.2 Annex C		
	DS		US	DS		US	DS		US	DS		US	DS		US
	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	
0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0.75	0	0	-224	-64	-64	-96	-64	-64	-64	0	0	-64	0	0	
1	0	0	-928	-384	-384	-512	0	0	-256	0	0	-256	0	0	
1.25	0	0	-1888	-32	-736	-32	-1088	-32	0	0	-480	-32	0	0	
1.5	0	0	-2784	-64	-1152	-64	-1600	-32	0	0	-704	-32	0	0	
1.75	0	0	-3968	-64	-1536	-64	-2272	-32	32	0	-960	-32	0	0	
2	0	0	-4608	-96	-1984	-96	-2624	-64	0	0	-1216	-64	0	0	
2.25	0	0	-4992	-128	-2208	-128	-2784	-96	0	0	-1344	-96	32	0	
2.5	0	0	-5056	-160	-2400	-160	-2752	-96	-64	0	-1440	-96	32	0	
2.75	0	0	-4800	-192	-2464	-192	-2560	-96	-96	0	-1408	-96	96	0	
3	0	0	-4288	-224	-2400	-224	-2240	-128	-160	0	-1312	-128	96	0	
3.25	0	0	-3456	-288	-2272	-288	-1696	-160	-64	0	-1154	-160	128	0	
3.5	144	0	-2720	-288	-2080	-288	-1216	-160	0	32	-992	-160	160	32	
3.75	0	0	-2080	-288	-1792	-288	-800	-160	64	0	-736	-160	160	0	
4	0	0	-1504	-288	-1504	-288	-448	-160	96	0	-480	-160	160	0	
4.25	0	0	-1056	-288	-1184	-288	-128	-96	96	0	-256	-96	160	0	
4.5	0	0	-704	-256	-896	-256	64	-96	96	0	-64	-96	96	0	
4.75	0	0	-416	-256	-576	-256	192	-96	96	0	128	-96	96	0	
5	0	0	-192	-256	-320	-256	224	-64	64	0	224	-64	96	0	

SEI

6-Annex C XOL															
距離(m)	TCM-ISDN			G.992.1 Annex A			G.992.2 Annex A			G.992.1 Annex C			G.992.2 Annex C		
	Down		Up	Down		Up	Down		Up	Down		Up	Down		Up
	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	
500	144	144	144	7104	832	3008	832	7104	832	2624	288	3008	832	1088	288
750	144	144	144	7008	832	3008	832	7008	832	2592	288	3008	832	1088	288
1000	144	144	144	6980	832	3008	832	6980	832	2528	288	3008	832	1088	288
1250	144	144	144	6784	832	3008	832	6784	832	2496	288	3008	832	1088	288
1500	144	144	144	6624	832	2976	832	6624	832	2432	288	2976	832	1088	288
1750	144	144	144	6464	800	2976	800	6464	800	2368	288	2976	800	1088	288
2000	144	144	144	6304	800	2912	800	6304	800	2336	288	2912	800	1088	288
2250	144	144	144	6080	768	2848	768	6080	800	2240	288	2848	800	1056	288
2500	144	144	144	5760	736	2752	736	5760	768	2144	288	2752	768	1024	288
2750	144	144	144	5280	704	2624	704	5280	736	1952	288	2624	736	960	288
3000	144	144	144	4608	672	2496	672	4608	704	1696	288	2496	704	928	288
3250	144	144	144	3680	640	2336	640	3680	672	1344	288	2336	672	864	288
3500	0	0	0	2848	576	2112	576	2848	640	1056	256	2112	640	768	256
3750	0	0	0	2144	512	1824	512	2144	608	788	256	1824	608	672	256
4000	0	0	0	1536	480	1504	480	1536	544	256	1504	576	544	256	
4250	0	0	0	1056	448	1184	448	1056	512	384	256	1184	512	416	256
4500	0	0	0	704	384	896	384	704	480	256	224	896	480	320	224
4750	0	0	0	416	352	576	352	416	448	128	224	576	448	192	224
5000	0	0	0	192	320	320	320	192	416	64	224	320	416	96	224

GSV-SEI 比較

Length(m)	TCM-ISDN			G.992.1 Annex A			G.992.2 Annex A			G.992.1 Annex C			G.992.2 Annex C		
	Down		Up	Down		Up	Down		Up	Down		Up	Down		Up
	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	
500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5000	0	0	0	0	0	0	0	0	0	0	0	0	32	0	

NEC

6-Annex C XOL															
Length(m)	TCM-ISDN			G.992.1 Annex A			G.992.2 Annex A			G.992.1 Annex C			G.992.2 Annex C		
	Down		Up	Down		Up	Down		Up	Down		Up	Down		Up
	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	
500	144	144	144	7104	832	3008	832	7104	832	2624	288	3008	832	1088	288
750	144	144	144	7008	832	3008	832	7008	832	2592	288	3008	832	1088	288
1000	144	144	144	6980	832	3008	832	6980	832	2528	288	3008	832	1088	288
1250	144	144	144	6784	832	3008	832	6784	832	2496	288	3008	832	1088	288
1500	144	144	144	6624	832	2976	832	6624	832	2432	288	2976	832	1088	288
1750	144	144	144	6464	800	2976	800	6464	800	2368	288	2976	800	1088	288
2000	144	144	144	6304	800	2912	800	6304	800	2336	288	2912	800	1088	288
2250	144	144	144	6080	768	2848	768	6080	8						

GSV

7-Annex C FBM-sOL		G.992.1 Annex A				G.992.2 Annex A				G.992.1 Annex C				G.992.2 Annex C				
Dist	TCM-ISDN		G.992.1 Annex A		G.992.2 Annex A		G.992.1 Annex C		G.992.2 Annex C		G.992.1 Annex C		G.992.2 Annex C		G.992.1 Annex C		G.992.2 Annex C	
	DS	US	DS	US	DS	US	DS	US	DS	US	DS	US	DS	US	DS	US	DS	US
0.5	144	144	7104	832	3008	832	7104	832	2624	288	3008	832	1088	288				
0.75	144	144	7008	832	3008	832	7040	832	2592	288	3008	832	1088	288				
1	144	144	6880	832	3008	832	7008	832	2528	288	3008	832	1088	288				
1.25	144	144	6784	832	3008	832	6976	832	2496	288	3008	832	1088	288				
1.5	144	144	6624	832	2976	832	6912	832	2432	288	2976	832	1088	288				
1.75	144	144	6464	800	2976	800	6848	800	2400	288	2976	800	1088	288				
2	144	144	6304	768	2912	768	6752	800	2368	288	2944	800	1088	288				
2.25	144	144	6112	736	2848	736	6688	768	2336	288	2912	768	1088	288				
2.5	144	144	5924	672	2752	672	6400	736	2272	288	2848	736	1088	288				
2.75	144	144	5408	608	2656	608	5888	672	2144	288	2784	672	1088	288				
3	144	144	4736	544	2496	544	5152	640	1984	288	2688	640	1088	288				
3.25	144	144	3776	480	2336	480	4224	608	1696	288	2592	608	1088	288				
3.5	144	144	2944	384	2144	384	3392	544	1440	288	2464	544	1088	288				
3.75	144	144	2240	288	1888	288	2688	480	1216	288	2272	480	1024	288				
4	144	144	1600	224	1568	224	2080	448	1056	288	1984	448	992	288				
4.25	144	144	1120	160	1216	160	1600	416	896	288	1696	416	896	288				
4.5	144	144	736	128	896	128	1216	384	736	288	1376	384	800	288				
4.75	144	144	416	96	576	96	896	352	640	288	1056	352	704	288				
5	144	144	224	64	320	64	672	352	512	288	768	352	576	288				

DELTA Ref-GSV

Dist	TCM-ISDN		G.992.1 Annex A		G.992.2 Annex A		G.992.1 Annex C				G.992.2 Annex C			
	DS	US	DS	US	DS	US	DS	US	DS	US	DS	US	DS	US
0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.75	0	0	-224	-64	-128	-64	-128	-64	-64	-64	-64	-64	-64	-64
1	0	0	-928	-384	-640	-40	0	0	-256	0	0	0	0	0
1.25	0	0	-1888	-32	-736	-32	-1280	-32	0	0	-480	-32	0	0
1.5	0	0	-2784	-64	-1152	-64	-1888	-32	0	0	-704	-32	0	0
1.75	0	0	-3688	-64	-1536	-64	-2656	-32	0	0	-960	-32	0	0
2	0	0	-4608	-64	-1984	-64	-3072	-64	-32	0	-1248	-64	0	0
2.25	0	0	-5024	-96	-2208	-96	-3392	-64	-96	0	-1408	-64	0	0
2.5	0	0	-5120	-96	-2400	-96	-3392	-64	-192	0	-1536	-64	-32	0
2.75	0	0	-4928	-96	-2496	-96	-3168	-32	-288	0	-1568	-32	-32	0
3	0	0	-4416	-96	-2400	-96	-2784	-64	-448	0	-1504	-64	-64	0
3.25	0	0	-3552	-128	-2272	-128	-2240	-96	-416	0	-1440	-96	-96	0
3.5	0	-144	-2816	-96	-2112	-96	-1760	-64	-384	0	-1344	-64	-160	0
3.75	-144	-144	-2176	-64	-1856	-64	-1344	-32	-384	-32	-1184	-32	-192	-32
4	-144	-144	-1568	-32	-1568	-32	-992	-32	-416	-32	-960	-32	-288	-32
4.25	-144	-144	-1120	0	-1216	0	-672	0	-416	-32	-768	0	-320	-32
4.5	-144	-144	-736	0	-896	0	-448	0	-384	-64	-544	0	-384	-64
4.75	-144	-144	-416	0	-576	0	-288	0	-416	-64	-352	0	-416	-64
5	-144	-144	-224	0	-320	0	-256	0	-384	-64	-224	0	-384	-64

SEI

7-Annex C FBM-sOL		G.992.1 Annex A				G.992.2 Annex A				G.992.1 Annex C				G.992.2 Annex C				
距離[m]	TCM-ISDN		G.992.1 Annex A		G.992.2 Annex A		G.992.1 Annex C		G.992.2 Annex C		G.992.1 Annex C		G.992.2 Annex C		G.992.1 Annex C		G.992.2 Annex C	
	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up
500	144	144	7104	832	3008	832	7104	832	2624	288	3008	832	1088	288				
750	144	144	7008	832	3008	832	7040	832	2592	288	3008	832	1088	288				
1000	144	144	6880	832	3008	832	7008	832	2528	288	3008	832	1088	288				
1250	144	144	6784	832	3008	832	6976	832	2496	288	3008	832	1088	288				
1500	144	144	6624	832	2976	832	6912	832	2432	288	2976	832	1088	288				
1750	144	144	6464	800	2976	800	6848	800	2400	288	2976	800	1088	288				
2000	144	144	6304	768	2912	768	6752	800	2368	288	2944	800	1088	288				
2250	144	144	6112	736	2848	736	6688	768	2336	288	2912	768	1088	288				
2500	144	144	5924	672	2752	672	6400	736	2272	288	2848	736	1088	288				
2750	144	144	5408	608	2656	608	5888	672	2144	288	2784	672	1088	288				
3000	144	144	4736	544	2496	544	5152	640	1984	288	2688	640	1088	288				
3250	144	144	3776	480	2336	480	4224	608	1696	288	2592	608	1088	288				
3500	144	144	2944	384	2144	384	3392	544	1440	288	2464	544	1088	288				
3750	144	144	2240	288	1888	288	2688	480	1216	288	2272	480	1024	288				
4000	144	144	1600	224	1568	224	2080	448	1056	288	1984	448	992	288				
4250	144	144	1120	160	1216	160	1600	416	896	288	1696	416	896	288				
4500	144	144	736	128	896	128	1216	384	736	288	1376	384	800	288				
4750	144	144	416	96	576	96	896	352	640	288	1056	352	704	288				
5000	144	144	224	64	320	64	672	352	512	288	768	352	576	288				

NEC

7-Annex C FBM-sOL		G.992.1 Annex A				G.992.2 Annex A				G.992.1 Annex C				G.992.2 Annex C				
Length[m]	TCM-ISDN		G.992.1 Annex A		G.992.2 Annex A		G.992.1 Annex C		G.992.2 Annex C		G.992.1 Annex C		G.992.2 Annex C		G.992.1 Annex C		G.992.2 Annex C	
	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up
500	144	144	7104	832	3008	832	7104	832	2624	288	3008	832	1088	288				
750	144	144	7008	832	3008	832	7040	832	2592	288	3008	832	1088	288				
1000	144	144	6880	832	3008	832	7008	832	2528	288	3008	832	1088	288				
1250	144	144	6784	832	3008	832	6976	832	2496	288	3008	832	1088	288				
1500	144	144	6624	832	2976	832	6912	832	2432	288	2976	832	1088	288				
1750	144	144	6464	800	2976	800	6848	800	2400	288	2976	800	1088	288				
2000	144	144	6304	768	2912	768	6752	800	2368	288	2944	800	1088	288				
2250	144	144	6112	736	2848	736	6688	768	2336	288	2912	768	1088	288				
2500	144	144	5924	672	2752	672	6400	736	2272	288	2848	736	1088	288				
2750	144	144	5408	608	2656	608	5888	672	2144	288	2784	672	1088	288				
3000	144	144	4736	544	2496	544	5152	640	1984	288	2688	640	1088	288				
3250	144	144	3776	480	2336	480	4224	608	1696	288	2592	608	1088	288				
3500	144	144	2944	384	2144	384	3392	544	1440	288	2464	544	1088	288				
3750	144	144	2240	288	1888	288	2688	480	1216	288	2272	480	1024	288				
4000	144	144	1600	224	1568	224	2080	448	1056	288	1984	448	992	288				
4250	144	144	1120	160	1216	160	1600	416	896	288	1696	416	896	288				
4500	144	144	736	128	896	128	1216	384	736	288	1376	384	800	288				
4750	144	144	416	96	576	96	896	352	640	288	1056	352	704	288				
5000	144	144	224	64	320	64	672	352	512	288	768	352	576	288				

GSV-SEI 比較

GSV

9-Quad FDM Inter table with columns for Dist, TCM-ISDN, G.992.1 Annex A, G.992.2 Annex A, G.992.1 Annex C, and G.992.2 Annex C. Includes sub-headers for DS, US, DBM, and FBM.

SEI

9-Quad FDM Inter table with columns for Length(m), TCM-ISDN, G.992.1 Annex A, G.992.2 Annex A, G.992.1 Annex C, and G.992.2 Annex C. Includes sub-headers for Down, Up, DBM, and FBM.

GSV-SEI 比較

Comparison table for GSV-SEI with columns for Length(m), TCM-ISDN, G.992.1 Annex A, G.992.2 Annex A, G.992.1 Annex C, and G.992.2 Annex C.

DELTA Ref-GSV

DELTA Ref-GSV table with columns for Dist, TCM-ISDN, G.992.1 Annex A, G.992.2 Annex A, G.992.1 Annex C, and G.992.2 Annex C. Includes sub-headers for DS, US, DBM, and FBM.

NEC

9-Quad FDM Inter table with columns for Length(m), TCM-ISDN, G.992.1 Annex A, G.992.2 Annex A, G.992.1 Annex C, and G.992.2 Annex C. Includes sub-headers for Down, Up, DBM, and FBM.

GSV-NEC 比較

Comparison table for GSV-NEC with columns for Length(m), TCM-ISDN, G.992.1 Annex A, G.992.2 Annex A, G.992.1 Annex C, and G.992.2 Annex C.

GSV

Table with columns: Dist, TCM-ISDN, G.992.1 Annex A, G.992.2 Annex A, G.992.1 Annex C, G.992.2 Annex C. Rows include length (0.5, 1, 1.25, 1.5, 1.75, 2, 2.25, 2.5, 2.75, 3, 3.25, 3.5, 3.75, 4, 4.25, 4.5, 4.75, 5) and various sub-columns for DS, US, DBM, FBM.

DELTA Ref-GSV

Table with columns: Dist, TCM-ISDN, G.992.1 Annex A, G.992.2 Annex A, G.992.1 Annex C, G.992.2 Annex C. Rows include length (0.5, 0.75, 1, 1.25, 1.5, 1.75, 2, 2.25, 2.5, 2.75, 3, 3.25, 3.5, 3.75, 4, 4.25, 4.5, 4.75, 5) and various sub-columns for DS, US, DBM, FBM.

SEI

Table with columns: 9-Quad FDM Inter, TCM-ISDN, G.992.1 Annex A, G.992.2 Annex A, G.992.1 Annex C, G.992.2 Annex C. Rows include length (500, 750, 1000, 1250, 1500, 1750, 2000, 2250, 2500, 2750, 3000, 3250, 3500, 3750, 4000, 4250, 4500, 4750, 5000) and various sub-columns for Down, Up, DBM, FBM.

NEC

Table with columns: 9-Quad FDM Inter, TCM-ISDN, G.992.1 Annex A, G.992.2 Annex A, G.992.1 Annex C, G.992.2 Annex C. Rows include length (500, 750, 1000, 1250, 1500, 1750, 2000, 2250, 2500, 2750, 3000, 3250, 3500, 3750, 4000, 4250, 4500, 4750, 5000) and various sub-columns for Down, Up, DBM, FBM.

GSV-SEI 比較

Comparison table between GSV and SEI. Columns: Length(m), TCM-ISDN, G.992.1 Annex A, G.992.2 Annex A, G.992.1 Annex C, G.992.2 Annex C. Rows include length (500, 750, 1000, 1250, 1500, 1750, 2000, 2250, 2500, 2750, 3000, 3250, 3500, 3750, 4000, 4250, 4500, 4750, 5000).

GSV-NEC 比較

Comparison table between GSV and NEC. Columns: Length(m), TCM-ISDN, G.992.1 Annex A, G.992.2 Annex A, G.992.1 Annex C, G.992.2 Annex C. Rows include length (500, 750, 1000, 1250, 1500, 1750, 2000, 2250, 2500, 2750, 3000, 3250, 3500, 3750, 4000, 4250, 4500, 4750, 5000).

GSV

Table with columns: Dist, TCM-ISDN, G.992.1 Annex A, G.992.2 Annex A, G.992.1 Annex C, G.992.2 Annex C. Rows include distance (0.5, 1, 1.25, 1.5, 1.75, 2, 2.25, 2.5, 2.75, 3, 3.25, 3.5, 3.75, 4, 4.25, 4.5, 4.75, 5) and various sub-columns for DS, US, DBM, FBM.

DELTA Ref-GSV

Table with columns: Dist, TCM-ISDN, G.992.1 Annex A, G.992.2 Annex A, G.992.1 Annex C, G.992.2 Annex C. Rows include distance (0.5, 0.75, 1, 1.25, 1.5, 1.75, 2, 2.25, 2.5, 2.75, 3, 3.25, 3.5, 3.75, 4, 4.25, 4.5, 4.75, 5) and various sub-columns for DS, US, DBM, FBM.

SEI

Table with columns: 10-Annex I DBM-OL Inter, G.992.1 Annex A, G.992.2 Annex A, G.992.1 Annex C, G.992.2 Annex C. Rows include distance (500, 750, 1000, 1250, 1500, 1750, 2000, 2250, 2500, 2750, 3000, 3250, 3500, 3750, 4000, 4250, 4500, 4750, 5000) and various sub-columns for Down, Up, DBM, FBM.

NEC

Table with columns: 10-Annex I DBM-OL Inter, G.992.1 Annex A, G.992.2 Annex A, G.992.1 Annex C, G.992.2 Annex C. Rows include distance (500, 750, 1000, 1250, 1500, 1750, 2000, 2250, 2500, 2750, 3000, 3250, 3500, 3750, 4000, 4250, 4500, 4750, 5000) and various sub-columns for Down, Up, DBM, FBM.

GSV-SEI 比較

Comparison table between GSV and SEI data, showing differences in values across various parameters and distances.

GSV-NEC 比較

Comparison table between GSV and NEC data, showing differences in values across various parameters and distances.

GSV

Table with columns: Dist, TCM-ISDN (DS, US, FDM), G.992.1 Annex A (DS, US), G.992.2 Annex A (DS, US), G.992.1 Annex C (DBM, FBM), G.992.2 Annex C (DBM, FBM). Rows include distance markers from 0.5 to 5000 meters.

SEI

Table with columns: Length(m), TCM-ISDN (Down, Up), G.992.1 Annex A (Down, Up), G.992.2 Annex A (Down, Up), G.992.1 Annex C (DBM, FBM), G.992.2 Annex C (DBM, FBM). Rows include distance markers from 500 to 5000 meters.

GSV-SEI 比較

Comparison table between GSV and SEI data, showing differences in DBM and FBM values across various distance markers.

DELTA Ref-GSV

Delta table showing differences between GSV and SEI data. Columns include Dist, TCM-ISDN, G.992.1 Annex A, G.992.2 Annex A, G.992.1 Annex C, and G.992.2 Annex C.

NEC

Table with columns: Length(m), TCM-ISDN (Down, Up), G.992.1 Annex A (Down, Up), G.992.2 Annex A (Down, Up), G.992.1 Annex C (DBM, FBM), G.992.2 Annex C (DBM, FBM). Rows include distance markers from 500 to 5000 meters.

GSV-NEC 比較

Comparison table between GSV and NEC data, showing differences in DBM and FBM values across various distance markers.

GSV

12-Annex C XOL Inter

Dist	TCM-ISDN		G.992.1 Annex A				G.992.2 Annex A				G.992.1 Annex C				G.992.2 Annex C			
			(FDM)				DBM		FBM		DBM		FBM		DBM		FBM	
	DS	US	DS	US	DS	US	DS	US	DS	US	DS	US	DS	US	DS	US	DS	US
0.5	144	144	7104	832	3008	832	7104	832	2624	288	3008	832	1088	288				
0.75	144	144	7040	832	3008	832	7040	832	2592	288	3008	832	1088	288				
1	144	144	6912	832	3008	832	6912	832	2560	288	3008	832	1088	288				
1.25	144	144	6816	832	3008	832	6816	832	2528	288	3008	832	1088	288				
1.5	144	144	6720	832	3008	832	6720	832	2496	288	3008	832	1088	288				
1.75	144	144	6592	832	3008	832	6592	832	2432	288	3008	832	1088	288				
2	144	144	6464	832	2976	832	6464	832	2368	288	2976	832	1088	288				
2.25	144	144	6336	800	2944	800	6336	800	2336	288	2944	800	1088	288				
2.5	144	144	6048	800	2912	800	6048	800	2240	288	2912	800	1056	288				
2.75	144	144	5632	768	2816	768	5632	800	2080	288	2816	800	1024	288				
3	144	144	4992	736	2720	736	4992	768	1824	288	2720	768	992	288				
3.25	144	144	4096	704	2560	704	4096	736	1504	288	2560	736	928	288				
3.5	144	144	3264	672	2368	672	3264	704	1184	288	2368	704	864	288				
3.75	144	144	2496	640	2144	640	2496	672	928	288	2144	672	788	288				
4	0	0	1824	576	1792	576	1824	640	672	256	1792	640	672	256				
4.25	0	0	1280	512	1408	512	1280	608	448	256	1408	608	512	256				
4.5	0	0	832	480	1024	480	832	544	288	256	1024	544	352	256				
4.75	0	0	544	448	672	448	544	512	192	256	672	512	256	256				
5	0	0	288	384	416	384	288	480	96	224	416	480	128	224				

DELTA Ref-GSV

Dist	TCM-ISDN		G.992.1 Annex A				G.992.2 Annex A				G.992.1 Annex C				G.992.2 Annex C			
			(FDM)				DBM		FBM		DBM		FBM		DBM		FBM	
	DS	US	DS	US	DS	US	DS	US	DS	US	DS	US	DS	US	DS	US	DS	US
0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.75	0	0	-256	-64	-128	-64	-128	-128	-64	-32	-64	-64	-32	-64	-64	-32	-64	-64
1	0	0	-960	-384	-4	-544	-32	-256	0	0	0	0	0	0	0	0	0	0
1.25	0	0	-1920	-32	-736	-32	-1120	-32	-32	0	0	0	0	0	0	0	0	0
1.5	0	0	-2880	-64	-1184	-64	-1696	-32	-64	0	0	-736	-32	0	0	0	0	0
1.75	0	0	-4096	-96	-1568	-96	-2400	-64	-32	0	-992	-64	0	0	0	0	0	0
2	0	0	-4768	-128	-2016	-128	-2784	-96	-32	0	-1250	-96	0	0	0	0	0	0
2.25	0	0	-5248	-160	-2304	-160	-3040	-96	-96	0	-1440	-96	0	0	0	0	0	0
2.5	0	0	-5344	-224	-2560	-224	-3040	-128	-160	0	-1600	-128	0	0	0	0	0	0
2.75	0	0	-5152	-256	-2656	-256	-2912	-160	-224	0	-1600	-160	32	0	0	0	0	0
3	0	0	-4672	-288	-2624	-288	-2624	-192	-288	0	-1536	-192	32	0	0	0	0	0
3.25	0	0	-3872	-352	-2496	-352	-2112	-224	-224	0	-1408	-224	64	0	0	0	0	0
3.5	0	-144	-3136	-384	-2336	-384	-1632	-224	-128	0	-1248	-224	64	0	0	0	0	0
3.75	-144	-144	-2432	-416	-2112	-416	-1152	-224	-96	-32	-1056	-224	64	-32	0	0	0	0
4	0	0	-1792	-384	-1792	-384	-736	-224	-32	0	-768	-224	32	0	0	0	0	0
4.25	0	0	-1280	-352	-1408	-352	-192	32	0	-480	-192	64	0	0	0	0	0	0
4.5	0	0	-832	-352	-1024	-352	-64	-160	64	-32	-192	-160	64	-32	0	0	0	0
4.75	0	0	-544	-352	-672	-352	64	-160	32	-32	32	-160	32	-32	0	0	0	0
5	0	0	-288	-320	-416	-320	128	-128	32	0	128	-128	64	0	0	0	0	0

SEI

12-Annex C XOL Inter

距離[m]	TCM-ISDN		G.992.1 Annex A				G.992.2 Annex A				G.992.1 Annex C				G.992.2 Annex C			
			DBM		FBM		DBM		FBM		DBM		FBM		DBM		FBM	
	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up
500	144	144	7104	832	3008	832	7104	832	2624	288	3008	832	1088	288				
750	144	144	7040	832	3008	832	7040	832	2592	288	3008	832	1088	288				
1000	144	144	6912	832	3008	832	6912	832	2560	288	3008	832	1088	288				
1250	144	144	6816	832	3008	832	6816	832	2528	288	3008	832	1088	288				
1500	144	144	6720	832	3008	832	6720	832	2496	288	3008	832	1088	288				
1750	144	144	6592	832	3008	832	6592	832	2432	288	3008	832	1088	288				
2000	144	144	6464	832	2976	832	6464	832	2368	288	2976	832	1088	288				
2250	144	144	6336	800	2944	800	6336	800	2336	288	2944	800	1088	288				
2500	144	144	6048	800	2912	800	6048	800	2240	288	2912	800	1056	288				
2750	144	144	5632	768	2816	768	5632	800	2080	288	2816	800	1024	288				
3000	144	144	4992	736	2720	736	4992	768	1824	288	2720	768	992	288				
3250	144	144	4096	704	2560	704	4096	736	1504	288	2560	736	928	288				
3500	144	144	3264	672	2368	672	3264	704	1184	288	2368	704	864	288				
3750	144	144	2496	640	2144	640	2496	672	928	288	2144	672	788	288				
4000	0	0	1824	576	1792	576	1824	640	672	256	1792	640	672	256				
4250	0	0	1280	512	1408	512	1280	608	448	256	1408	608	512	256				
4500	0	0	832	480	1024	480	832	544	288	256	1024	544	352	256				
4750	0	0	544	448	672	448	544	512	192	256	672	512	256	256				
5000	0	0	288	384	416	384	288	480	96	224	416	480	128	224				

NEC

12-Annex C XOL Inter

Length[m]	TCM-ISDN		G.992.1 Annex A				G.992.2 Annex A				G.992.1 Annex C				G.992.2 Annex C			
			DBM		FBM		DBM		FBM		DBM		FBM		DBM		FBM	
	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up
500	144	144	7104	832	3008	832	7104	832	2624	288	3008	832	1088	288				
750	144	144	7040	832	3008	832	7040	832	2592	288	3008	832	1088	288				
1000	144	144	6912	832	3008	832	6912	832	2560	288	3008	832	1088	288				
1250	144	144	6816	832	3008	832	6816	832	2528	288	3008	832	1088	288				
1500	144	144	6720	832	3008	832	6720	832	2496	288	3008	832	1088	288				
1750	144	144	6592	832	3008	832	6592	832	2432	288	3008	832	1088	288				
2000	144	144	6464	832	2976	832	6464	832	2368	288	2976	832	1088	288				
2250	144	144	6336	800	2944	800	6336	800	2336	288	2944	800	1088	288				
2500	144	144	6048	800	2912	800	6048	800	2240	288	2912	800	1056	288				
2750	144	144	5632	768	2816	768	5632	800	2080	288	2816	800	1024	288				
3000	144	144	4992	736	2720	736	4992	768	1824	288	2720	768	992	288				
3250	144	144	4096	704	2560	704	4096	736	1504	288	2560	736	928	288				
3500	144	144	3264	672	2368	672	3264	704	1184	288	2368	704	864	288				
3750	144	144	2496	640	2144	640	2496	672	928	288	2144	672	788	288				
4000	144	0	1824	576	1792	576	1824	640	672	256	1792	640	672	256				
4250	0	0	1280	512	1408	512	1280	608	448	256	1408	608	512	256				
4500	0	0	832	480	1024	480	832	544	288	256	1024	544	352	256				
4750	0	0	544	448</														

GSV

Table with 17 columns: Dist, TCM-ISDN, G.992.1 Annex A, G.992.2 Annex A, G.992.1 Annex C, G.992.2 Annex C. Rows include parameters like DS, US, DBM, FBM for various frequencies and power levels.

DELTA Ref-GSV

Table with 17 columns: Dist, TCM-ISDN, G.992.1 Annex A, G.992.2 Annex A, G.992.1 Annex C, G.992.2 Annex C. Shows difference values between TCM-ISDN and Annex specifications.

SEI

Table with 21 columns: 距離[m], TCM-ISDN, G.992.1 Annex A, G.992.2 Annex A, G.992.1 Annex C, G.992.2 Annex C. Includes distance and frequency/width parameters.

NEC

Table with 21 columns: Length[m], TCM-ISDN, G.992.1 Annex A, G.992.2 Annex A, G.992.1 Annex C, G.992.2 Annex C. Similar to SEI but with length parameters.

GSV-SEI 比較

Comparison table between GSV and SEI, showing differences in parameters like TCM-ISDN, Annex A, and Annex C for both distance and length.

GSV-NEC 比較

Comparison table between GSV and NEC, showing differences in parameters like TCM-ISDN, Annex A, and Annex C for length.

GSV

15-G-Boost Narrow

Dist	TCM-ISDN		G.992.1 Annex A				G.992.2 Annex A				G.992.1 Annex C				G.992.2 Annex C			
	(FDM)		DS		US		DS		US		DS		US		DS		US	
	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up
0.5	144	144	7104	832	3008	832	7104	832	2624	288	3008	832	1088	288				
0.75	144	144	7104	832	3008	832	7104	832	2624	288	3008	832	1088	288				
1	144	144	7104	832	3008	832	7104	832	2624	288	3008	832	1088	288				
1.25	144	144	7104	832	3008	832	7104	832	2624	288	3008	832	1088	288				
1.5	144	144	7072	832	2976	832	7072	832	2624	288	2976	832	1088	288				
1.75	144	144	7072	832	2976	832	7072	832	2624	288	2976	832	1088	288				
2	144	144	7040	832	2976	832	7072	832	2624	288	2976	832	1088	288				
2.25	144	144	6784	800	2944	800	6880	800	2624	288	2976	800	1088	288				
2.5	144	144	6776	736	2912	736	6464	768	2560	288	2944	768	1088	288				
2.75	144	144	5376	672	2880	672	5824	736	2640	288	2880	736	1088	288				
3	144	144	4416	608	2848	608	4960	672	2144	288	2880	672	1088	288				
3.25	144	144	3616	512	2752	512	4128	640	1824	288	2848	640	1088	288				
3.5	144	144	2944	448	2592	448	3392	576	1504	288	2752	576	1088	288				
3.75	144	144	2368	384	2336	384	2784	544	1248	288	2560	544	1056	288				
4	144	144	1856	288	2016	288	2240	480	1056	288	2272	480	992	288				
4.25	144	144	1408	192	1632	192	1760	416	864	288	1952	416	896	288				
4.5	144	144	992	128	1216	128	1344	384	704	288	1536	384	800	288				
4.75	144	144	672	96	832	96	992	352	576	288	1216	352	672	288				
5	144	144	416	64	544	64	736	320	480	288	896	320	544	288				

DELTA Ref-GSV

Dist	TCM-ISDN		G.992.1 Annex A				G.992.2 Annex A				G.992.1 Annex C				G.992.2 Annex C			
	(FDM)		DS		US		DS		US		DS		US		DS		US	
	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up
0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.75	0	0	-320	-64	-192	-64	-192	-64	-64	0	0	0	0	0	0	0	0	0
1	0	0	-1152	-384	0	-736	0	-96	0	-256	0	0	0	0	0	0	0	0
1.25	0	0	-2208	-32	-736	-32	-1408	-32	-128	0	-480	-32	0	0	0	0	0	0
1.5	0	0	-3232	-64	-1152	-64	-2048	-32	-192	0	-704	-32	0	0	0	0	0	0
1.75	0	0	-4576	-96	-1536	-96	-2880	-64	-224	0	-960	-64	0	0	0	0	0	0
2	0	0	-5344	-128	-2016	-128	-3392	-96	-288	0	-1280	-96	0	0	0	0	0	0
2.25	0	0	-6696	-160	-2304	-160	-3584	-96	-384	0	-1472	-96	0	0	0	0	0	0
2.5	0	0	-5472	-160	-2560	-160	-3456	-96	-480	0	-1632	-96	-32	0	0	0	0	0
2.75	0	0	-4896	-160	-2720	-160	-3104	-96	-544	0	-1696	-96	-32	0	0	0	0	0
3	0	0	-4096	-160	-2752	-160	-3592	-96	-608	0	-1696	-96	-64	0	0	0	0	0
3.25	0	0	-3392	-160	-2688	-160	-2144	-128	-544	0	-1696	-128	-96	0	0	0	0	0
3.5	0	-144	-2816	-160	-2660	-160	-1760	-96	-448	0	-1632	-96	-160	0	0	0	0	0
3.75	-144	-144	-2304	-160	-2304	-160	-1440	-96	-416	-32	-1472	-96	-224	-32	0	0	0	0
4	-144	-144	-1824	-96	-2016	-96	-1152	-64	-416	-32	-1248	-64	-288	-32	0	0	0	0
4.25	-144	-144	-1408	-32	-1632	-32	-832	0	-384	-32	-1024	0	-320	-32	0	0	0	0
4.5	-144	-144	-992	0	-1216	0	-576	0	-352	-64	-704	0	-384	-64	0	0	0	0
4.75	-144	-144	-672	0	-832	0	-384	0	-352	-64	-512	0	-384	-64	0	0	0	0
5	-144	-144	-416	0	-544	0	-320	32	-352	-64	-352	32	-352	-64	0	0	0	0

SEI

15-G-Boost Narrow

距離(m)	TCM-ISDN		G.992.1 Annex A				G.992.2 Annex A				G.992.1 Annex C				G.992.2 Annex C			
	(FDM)		DS		US		DS		US		DS		US		DS		US	
	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up
500	144	144	7104	832	3008	832	7104	832	2624	288	3008	832	1088	288				
750	144	144	7104	832	3008	832	7104	832	2624	288	3008	832	1088	288				
1000	144	144	7104	832	3008	832	7104	832	2624	288	3008	832	1088	288				
1250	144	144	7104	832	3008	832	7104	832	2624	288	3008	832	1088	288				
1500	144	144	7072	832	2976	832	7072	832	2624	288	2976	832	1088	288				
1750	144	144	7072	832	2976	832	7072	832	2624	288	2976	832	1088	288				
2000	144	144	7040	832	2976	832	7072	832	2624	288	2976	832	1088	288				
2250	144	144	6784	800	2944	800	6880	800	2624	288	2976	800	1088	288				
2500	144	144	6776	736	2912	736	6464	768	2560	288	2944	768	1088	288				
2750	144	144	5376	672	2880	672	5824	736	2640	288	2880	736	1088	288				
3000	144	144	4416	608	2848	608	4960	672	2144	288	2880	672	1088	288				
3250	144	144	3616	512	2752	512	4128	640	1824	288	2848	640	1088	288				
3500	144	144	2944	448	2592	448	3392	576	1504	288	2752	576	1088	288				
3750	144	144	2368	384	2336	384	2784	544	1248	288	2560	544	1056	288				
4000	144	144	1856	288	2016	288	2240	480	1056	288	2272	480	992	288				
4250	144	144	1408	192	1632	192	1760	416	864	288	1952	416	896	288				
4500	144	144	992	128	1216	128	1344	384	704	288	1536	384	800	288				
4750	144	144	672	96	832	96	992	352	576	288	1216	352	672	288				
5000	144	144	416	64	544	64	736	320	480	288	896	320	544	288				

NEC

15-G-Boost Narrow

Length(m)	TCM-ISDN		G.992.1 Annex A				G.992.2 Annex A				G.992.1 Annex C				G.992.2 Annex C			
	(FDM)		DS		US		DS		US		DS		US		DS		US	
	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up
500	144	144	7104	832	3008	832	7104	832	2624	288	3008	832	1088	288				
750	144	144	7104	832	3008	832	7104	832	2624	288	3008	832	1088	288				
1000	144	144	7104	832	3008	832	7104	832	2624	288	3008	832	1088	288				
1250	144	144	7104	832	3008	832	7104	832	2624	288	3008	832	1088	288				
1500	144	144	7072	832	2976	832	7072	832	2624	288	2976	832	1088	288				
1750	144	144	7072	832	2976	832	7072	832	2624	288	2976	832	1088	288				
2000	144	144	7040	832	2976	832	7072	832	2624	288	2976	832	1088	288				
2250	144	144	6784	800	2944	800	6880	800	2624	288	2976	800	1088	288				
2500	144	144	6776	736	2912	736	6464	768	2560	288	2944	768	1088	288				
2750	144	144	5344	608	2880	608	5792	672	2400	288	2912	672	1088	288				
3000	144	144	4384	544	2848	544	4928	640	2112	288	2880	640	1088	288				
3250	144	144	3520	480	2752	480	4096	576	1760	288	2848	576	1088	288				
3500	144	144	2848	384	2592	384	3328	544	1440	288	2720	544	1088	288				
3750	144	144	2304	288	2240	288	2720	480	1216	288	2496	480	992	288				
4000	144	144	1792	224	1852	224	2208	448	992	288	2240	448	960	288				
4250	144	144	1376	160	1600	160	1728	416	832	288	1920	416	864	288				
4500	144	144	992	128	1216	128	1344	384	704	288	1536	384	800	288				
4750	144	144	672	96	832	96	1024	352	576	288	1216	352	672	288				
5000	144	0	416	64	544	64	768	352	480	288	896	352	544	288				

GSV-SEI 比較

Length(m)	TCM-ISDN		G.992.1 Annex A				G.992.2 Annex A				G.992.1 Annex C				G.992.2 Annex C			
	(FDM)		DS		US		DS		US		DS		US		DS		US	
	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up
500	0	0																

GSV

16-Down : G.992.1 Annex A-sOL Up : EU-G (Intra)

Dist	TCM-SDSN		G.992.1 Annex A				G.992.2 Annex A				G.992.1 Annex C				G.992.2 Annex C			
			DBM		FBM		DBM		FBM		DBM		FBM		DBM		FBM	
	DS	US	DS	US	DS	US	DS	US	DS	US	DS	US	DS	US	DS	US	DS	US
0.5	144	144	7104	832	3008	832	7104	832	2624	288	3008	832	1088	288				
0.75	144	144	7008	832	3008	832	7008	832	2592	288	3008	832	1088	288				
1	144	144	6980	832	3008	832	6980	832	2528	288	3008	832	1088	288				
1.25	144	144	6784	832	3008	832	6784	832	2496	288	3008	832	1088	288				
1.5	144	144	6624	832	2976	832	6624	832	2432	288	2976	832	1088	288				
1.75	144	144	6464	832	2976	832	6464	832	2368	288	2976	832	1088	288				
2	144	144	6304	800	2912	800	6304	800	2336	288	2912	800	1088	288				
2.25	144	144	6080	768	2848	768	6080	768	2240	256	2848	768	1056	256				
2.5	144	144	5760	704	2752	704	5760	704	2144	256	2752	704	1024	256				
2.75	144	144	5280	640	2624	640	5280	640	1952	224	2624	640	960	224				
3	144	144	4608	576	2496	576	4608	576	1696	192	2496	576	928	192				
3.25	144	144	3680	512	2336	512	3680	512	1344	192	2336	512	864	192				
3.5	0	0	2848	448	2112	448	2848	448	1056	160	2112	448	768	160				
3.75	0	0	2144	384	1824	384	2144	384	768	128	1824	384	672	128				
4	0	0	1536	288	1504	288	1536	288	544	96	1504	288	544	96				
4.25	0	0	1056	224	1184	224	1056	224	384	64	1184	224	416	64				
4.5	0	0	704	192	896	192	704	192	256	64	896	192	320	64				
4.75	0	0	416	160	576	160	416	160	128	32	576	160	192	32				
5	0	0	192	128	320	128	192	128	64	32	320	128	96	32				

DELTA Ref-GSV

Dist	TCM-SDSN		G.992.1 Annex A				G.992.2 Annex A				G.992.1 Annex C				G.992.2 Annex C			
			FDM		DBM		FBM		DBM		FBM		DBM		FBM			
	DS	US	DS	US	DS	US	DS	US	DS	US	DS	US	DS	US	DS	US		
0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0.75	0	0	-224	-64	-96	-64	-144	-64	-64	0	0	0	0	0	0	0		
1	0	0	-928	-384	-512	-384	-512	0	0	-256	0	0	0	0	0	0		
1.25	0	0	-1888	-32	-736	-32	-1088	-32	0	-480	-32	0	0	0	0	0		
1.5	0	0	-2784	-64	-1152	-64	-1600	-32	0	-704	-32	0	0	0	0	0		
1.75	0	0	-3968	-96	-1536	-96	-2272	-64	32	-960	-64	0	0	0	0	0		
2	0	0	-4608	-96	-1984	-96	-2624	-64	0	-1216	-64	0	0	0	0	0		
2.25	0	0	-4992	-128	-2208	-128	-2784	-64	32	-1344	-64	32	32	32	32	32		
2.5	0	0	-5056	-128	-2400	-128	-2752	-32	-64	32	-1440	-32	32	32	32	32		
2.75	0	0	-4800	-128	-2464	-128	-2560	0	-96	64	-1408	0	96	64	96	64		
3	0	0	-4288	-128	-2400	-128	-2240	0	-160	96	-1312	0	96	96	96	96		
3.25	0	0	-3456	-160	-2272	-160	-1696	0	-64	96	-1164	0	128	96	128	96		
3.5	144	0	-2720	-160	-2080	-160	-1216	32	0	128	-992	32	160	128	160	128		
3.75	0	0	-2080	-160	-1792	-160	-800	64	64	128	-736	64	160	128	160	128		
4	0	0	-1504	-96	-1504	-96	-448	128	96	160	-480	128	160	160	160	160		
4.25	0	0	-1056	-64	-1184	-64	-128	192	96	192	-256	192	160	192	160	192		
4.5	0	0	-704	-64	-896	-64	64	192	96	160	-64	192	96	160	160	160		
4.75	0	0	-416	-64	-576	-64	192	192	96	192	128	192	96	192	96	192		
5	0	0	-192	-64	-320	-64	224	224	64	192	224	224	96	192	96	192		

SEI

16-Down : G.992.1 Annex A-sOL Up : EU-G (Intra)

距離[m]	TCM-SDSN		G.992.1 Annex A				G.992.2 Annex A				G.992.1 Annex C				G.992.2 Annex C			
			DBM		FBM		DBM		FBM		DBM		FBM		DBM		FBM	
	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up		
500	144	144	7104	832	3008	832	7104	832	2624	288	3008	832	1088	288				
750	144	144	7008	832	3008	832	7008	832	2592	288	3008	832	1088	288				
1000	144	144	6980	832	3008	832	6980	832	2528	288	3008	832	1088	288				
1250	144	144	6784	832	3008	832	6784	832	2496	288	3008	832	1088	288				
1500	144	144	6624	832	2976	832	6624	832	2432	288	2976	832	1088	288				
1750	144	144	6464	832	2976	832	6464	832	2368	288	2976	832	1088	288				
2000	144	144	6304	800	2912	800	6304	800	2336	288	2912	800	1088	288				
2250	144	144	6080	768	2848	768	6080	768	2240	256	2848	768	1056	256				
2500	144	144	5760	704	2752	704	5760	704	2144	256	2752	704	1024	256				
2750	144	144	5280	640	2624	640	5280	640	1952	224	2624	640	960	224				
3000	144	144	4608	576	2496	576	4608	576	1696	192	2496	576	928	192				
3250	144	144	3680	512	2336	512	3680	512	1344	192	2336	512	864	192				
3500	0	0	2848	448	2112	448	2848	448	1056	160	2112	448	768	160				
3750	0	0	2144	384	1824	384	2144	384	768	128	1824	384	672	128				
4000	0	0	1536	288	1504	288	1536	288	544	96	1504	288	544	96				
4250	0	0	1056	224	1184	224	1056	224	384	64	1184	224	416	64				
4500	0	0	704	192	896	192	704	192	256	64	896	192	320	64				
4750	0	0	416	160	576	160	416	160	128	32	576	160	192	32				
5000	0	0	192	128	320	128	192	128	64	32	320	128	96	32				

GSV-SEI 比較

Length[m]	TCM-SDSN		G.992.1 Annex A				G.992.2 Annex A				G.992.1 Annex C				G.992.2 Annex C			
			DBM		FBM		DBM		FBM		DBM		FBM		DBM		FBM	
	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up		
500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
3000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
3250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
3500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
3750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
4000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
4250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
4500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
4750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
5000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

NEC

16-Down : G.992.1 Annex A-sOL Up : EU-G (Intra)

Length[m]	TCM-SDSN		G.992.1 Annex A				G.992.2 Annex A				G.992.1 Annex C				G.992.2 Annex C			
			DBM		FBM		DBM		FBM		DBM		FBM		DBM		FBM	
	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up		
500	144	144	7104	832	3008	832	7104	832	2624	288	3008	832	1088	288				
750	144	144	7008	832	3008	832	7008	832	2592	288	3008	832	1088	288				
1000	144	144	6980	832	3008	832	6980	832	2528	288	3008	832	1088	288				
1250	144	144	6784	832	3008	832	6784	832	2496	288	3008	832	1088	288				
1500	144	144	6624	832	2976	832	6624	832	2432	288	2976	832	1088	288				
1750	144	144	6464	832	2976	832	6464	832	2368	288	2976	832	1088	288				
2000	144	144	6304	800	2912	800	6304	800	2336	288	2912	800	1					

