Your digital lab

TS-101-952-1

splitter/filter
xDSL over POTS

TS-101-952-1

La spécification technique TS-101-952-1 est un document de l'ETSI.
Elle décrit les méthodes de tests nécessaires à la validation des caractéristiques électriques d'un filtre « xDSL over POTS » déployé en Europe.
Cette norme est applicable aussi bien pour les filtres côté centrale téléphonique que pour ceux côté abonné.
Elle permet de s'assurer que, dans son environnement final, il fonctionnera correctement sans impacter les caractéristiques de la ligne.
Ces tests sont complémentaires des tests TR-127 définis par le Broadband Forum qui permettent de valider dynamiquement le filtre dans son système DSL Complet en s'assurant que les transitoires générés dans la bande téléphonique ne perturbent pas le lien DSL.

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TS-101-952-1 is a technical specification written by ETSI experts.
It provides a set of test methods to verify the electrical characteristics of an xDSL filter deployed in Europe.
This standard applies for Central Office, as well as CPE, filters. It allows to make sure that the filter will function correctly without impacting the loop characteristics.
These tests are complementary to TR-127 tests defined by the Broadband Forum which allows to dynamically validate the filter in its DSL system, by insuring that POTS transients will not impact the DSL link.

Access

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Tests xDSL

Ref	Tests	Pack Start	Pack Confort	Pack Zen
6.2	DC requirements			
6.2.1	DC resistance to earth	•	•	•
6.2.2	DC insulation resistance between A-wire and B-wire	•	•	•
6.2.3	DC series resistance RDC	•	•	•
6.3	Ringing frequency requirements			
6.3.1	Ringing voltage drop at 25 Hz and 50 Hz			•
6.3.2	ZInRing impedance in the presence of ringing at 25 Hz and 50 Hz			•
6.3.3	Total harmonic distortion at 25 Hz and 50 Hz			•
6.4	POTS pass band loss requirements (on-hook)			
6.4.1	On-hook requirement for the case of high impedance termination			
6.4.2	On-hook requirement for the case of low impedance termination		•	•
6.4.2.1	Low impedance on-hook POTS pass band insertion loss		•	•
6.4.2.2	Low impedance on-hook POTS pass band insertion loss distortion		•	•
6.5	POTS pass band loss requirements (off-hook)			
6.5.1	Off-hook POTS pass band insertion loss	•	•	•
6.5.2	Off-hook POTS pass band insertion loss distortion	•	•	•
6.6	POTS pass band return loss requirements (off-hook)			
6.6.1	POTS pass band return loss requirements, option A	•	•	•
6.6.2	POTS pass band return loss requirements, option B	•	•	•
6.7	Requirements relating to metering pulses at 12 kHz or 16 kHz (optional)			
6.8	Unbalance about Earth			
6.8.1	Unbalance of the low pass part		•	•
6.8.2	Unbalance of the high pass part for alternative B or C		•	•
6.9	xDSL band requirements			
6.9.1	xDSL band on-hook isolation between LINE and POTS port		•	•
6.9.2	xDSL band off-hook isolation between LINE and POTS port	•	•	•
6.9.3	Transition band signal loss: IL between POTS port and LINE port (optional)			
6.9.4	xDSL signal Loss : IL LINE port to xDSL port			
6.9.4.1	High pass alternatives A and B			
6.9.4.2	High pass alternative C			
6.10	Noise levels			
6.10.1	POTS band audible noise level			•
6.10.2	xDSL band noise level			•

Ref	Tests	Pack Start	Pack Confort	Pack Zen
6.11	Distortion			
6.11.1	POTS band intermodulation distortion		•	•
6.11.2	Extended xDSL band intermodulation distortion (informative)			
6.12	Group delay distortion		•	
6.13	POTS transient effects (informative)	Voir TR-127		
6.14	Requirements for Common Mode Rejection (optional)			•
6.15	Requirements for Crosstalk at the LE (optional)			

Contact

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La TR-101-952 est une spécification de tests élaborée par l'ETSI

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