

1.

Power Line
 Communication (PLC) –
 « »
 Wi-Fi). (HomePNA,
 30- XX
 PLC-
 « » 1997–2000
 Siemens, Nortel
 DSP- ()
 OFDM- (Orthogonal Frequency
 Division Multiplexing), PLC.
 HomePlug Alliance,
 PowerLine PowerPacket
 HomePlug1.0 specification (14 / .
 Intellon, HomePlug 2001 .),
 HomePlug AV,
 200 / .

2.

PLC
 (), N
 4–21 50 60
 « »
 (). PLC- « »
 « »
 PLC
 (Dynamically turning
 off and on data-carrying signals).
 « »

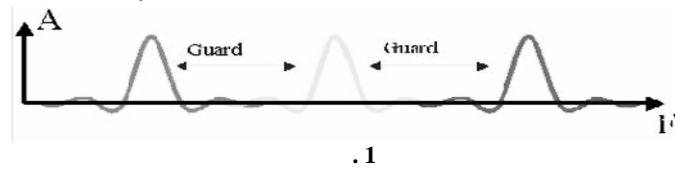
PLC

(. .)

(FDM-Frequency Division Multiplexing)

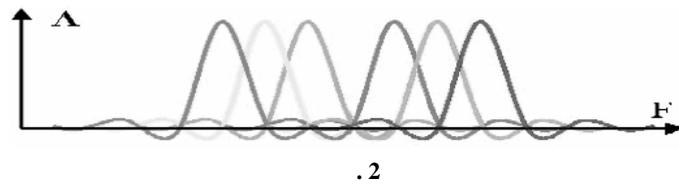
(Guard Band)

(. . 1),



(OFDM)

(. . 2).



PLC-

N=84

256 /

PLC

() ,

100%-

() ,

Ethernet, PLC-

3.

PLC-

PLC-

« »

(, 56- 128-

DES).

(, , . .)

4. PLC

2001 .

RWE

Ascom

PowerLine,

2 / .

150 .

Tiwag

1 .

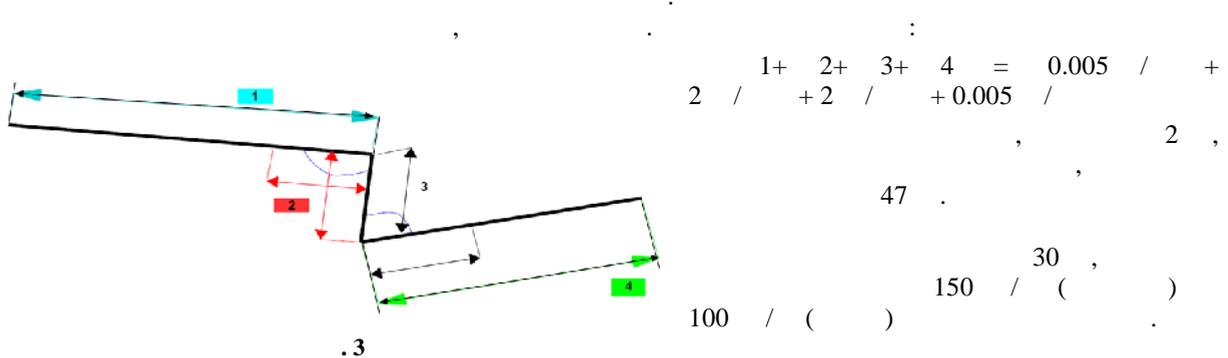
(,)

PowerLine

Scottish-Hydro-Electrics

150 PC Advisor, « » 2002
 2003 19- « »
 2003 Fibrlink Networks, PLC.
 Power Telecom,
 12
 2004 Cinergy
 Current Communications Group
 VoIP- BPL-
 over Power Line), (), BPL (Broadband

PLC-
 5. PLC-
 (. 3).



1. « » 2. « » ,2010, ISBN 978-5-9502-0427-2. 397-402
2. , 1-4 2010, . Д , .80-
3. PLC: Internal Training Documents. DefDev SAS, France, 2005.

INFORMATION TRANSFER IN ELECTRIC NETWORKS

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 Scientific research institute of System researches of the Russian Academy of Sciences,

Summary

In the represented article there are considered the questions on creating the hardware/software means of data transmission by power electric lines; the real systems of the information transfer by low-voltage electric systems are shown; the problems on developing the broadband multimedia information networks on the basis of existing electric networks in settlements and on the main transmission lines are designated.