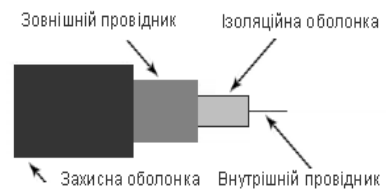
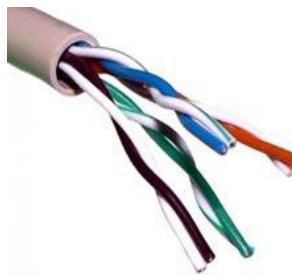
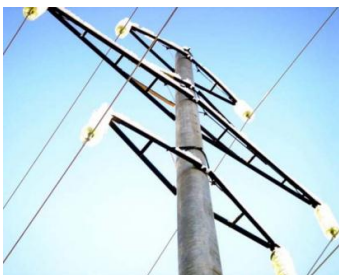
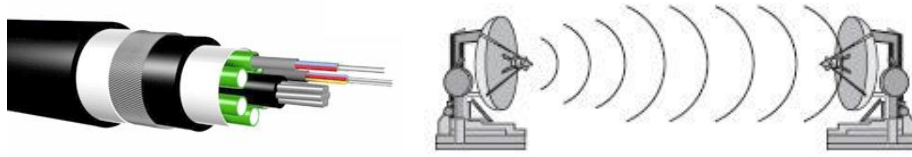


621.391

Intel, Realtek, D-Link, VIA, Planet.  
IEEE 802.3,

: 3Com, AlliedTelesis, Atheros, Broadcom, Marvell,





.1. ø  
 ( )  
 « » (POST ó  
 PrimitiveOldTelephoneSystem)

3\*108 /

$$s(t) = A_m(t) \cdot \cos[\psi(t)], \quad [3]$$

$A_m(t)$  ó  
 $\psi(t)$  ó

[4]

C

( , , ( ) , , ( ) , [5]

, 2012.

9

-  
-  
-

(  
-  
[5]

1. NRZ (Non-Return toZero ó ) ó

NRZ

NRZ

- NRZ ó "1ö
- NRZI (Non-Return toZeroInverted ó ) ó "0ö

"1ö.

100BaseFX;[7]

FDDI,

NRZ:

- 
- 
- 
- 

$f_0$

(  $\frac{N}{2}$  ,  $N$  -

[ / ]),

NRZ:

NRZ

[6]

2. RZ (ReturntoZero ó ) ó

"1ö "0ö

( ) ;

3-

RZ

: 2  
:

. [5]

3. AMI (BipolarAlternateMarkInversion) ó

AMI-

- 0 (0 );
- 1 -U + U ( ).

- AMI-
- ;
- ;
- ,
- 3
- ,
- , AMI

NRZ, ISDN, DSx,

4. ø . [6] (manchesterencoding) ó

(manchesterencoding) ó

- Ethernet.
- ( ( ( ) -  $\frac{N}{2}$  , NRZ. N
- NRZ

5. (differentialmanchesterencoding) ó

TokenRing

- . [5] ( )
- "Jö "Kö, "Kö ó ); MLT-3 ( ) - ("Jö , -U, 0, + U.

( CiscoSystems ) FDDI ;  
CDDI. FastEthernet 100BASE-TX.

- MLT-3 ;

MLT-3:

	0	1	0	1	1	0	0	0	1
NRZ	Low	High	Low	High	High	Low	Low	Low	High
Diff. NRZ	High	Low	High	Low	Low	High	High	High	Low
NRZI	High	High	Low	High	Low	High	Low	High	High
RZ	High	Low	High	Low	Low	High	High	High	Low
AMI	Low	High	Low	High	Low	High	Low	Low	High
Manchester	High	Low	High	Low	Low	High	High	High	Low
Diff. Manch.	Low	High	Low	High	High	Low	Low	Low	High
MLT-3	Low	High	Low	High	High	Low	Low	Low	High

. 2.

(Non-Return toZero ó ) NRZ

NRZ,  $f_0$ ,  $\frac{N}{2}$

AMI NRZ. AMI, NRZ ó

" ø - , 2012. 9 : , , "

AMI

ô

AMI

NRZ, , ø , NRZ,

3N/4.

MLT-3

1. : . . / . . . ó :: . . . - « . . . - », 2009. ó 70 .
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