

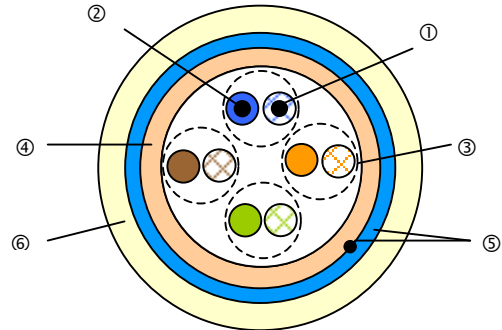
# ACOLAN<sup>®</sup> - Copper

Horizontal Cables - FTP - 100 Ohms - Category 5e - 4P - 24AWG



## Description :

- ① Diameter of conductor : 24AWG
- ② Insulation : Pe  $\varnothing$  < 1 mm
- ③ Cable assembly : pair  
Number of pairs: 4
- ④ Synthetic water-repellent tape
- ⑤ Shield : Aluminium/Polyester Tape and continuity wire
- ⑥ Sheath material : LSOH or PVC



## Marking on outer jacket :

ACOME X 24AWG FTP ENHANCED 100 OHMS M CAT5e  
EC VERIFIED TO IS 11801 IEC 332-1 75 C - Batch number + Length marking

## Electrical characteristics at 20°C :

Conductor resistance at 20°C (max.)	98,6 $\Omega$ /km
Dielectric strength at 50Hz	1 kV/1min
Insulation resistance (min.)	5000 M $\Omega$ .km
Capacitance unbalance – Pair to ground (max.)	800 pF/500m
Transfer impedance (Zt) at 10 MHz (max.)	100 m $\Omega$ /m
Velocity (nom.)	78 %
Characteristic impedance (Zc) from 1 to 100 MHz	100 $\Omega$

## Environmental characteristics :

Transport and storage temperature	0 + 50°C
Operating temperature	-20 + 60°C
Fire resistance	IEC 332-1, NFC 32070 2.1 (Category C2)

## Mechanical characteristics :

ACOME Ref.	Number of pairs (X)	Type of jacket (M)	Color of jacket	Conductor $\varnothing$ (mm)	Insulation $\varnothing$ (mm)	Cable $\varnothing$ (mm) nominal	Weight of cable (kg/km)	Min. laying Bending radius (mm)	Max. pulling tension (N)
M4969	4P	LSOH	IVORY	0,51	0,98	5,90	38	50	80
M4967	4P	PVC	GREY	0,51	0,98	5,90	37	50	80

Delivery length : 1000 m on drum KL; 500 m on drum KC ; 305 m on ACOPACK

Frequency [MHz]		1	4	10	16	20	31,25	62,5	100	155**	200**
Max attenuat. [dB/100 m]	Typical value	1,9	3,8	6	7,5	8,5	10,6	15,2	19,5	25	28
	Cat. 5e* (max.)	2,1	4,1	6,5	8,3	9,3	11,7	17	22	-	-
Min. Next [dB]	Typical value	72	63	57	54	52	49	45	42	39	37
	Cat. 5e* (min.)	65,3	56,3	50,3	47,3	45,8	42,9	38,4	35,3	-	-
Min. ACR [dB]	Typical value	70,1	59,2	51	46,5	43,5	38,4	29,8	22,5	14	9
	Cat. 5e* (min.)	63,2	52,2	43,8	39	36,5	31,2	21,4	13,3	-	-
PS Next [dB]	Typical value	69	60	54	51	49	46	42	39	36	34
	Cat. 5e* (min.)	62,3	53,3	47,3	44,3	42,8	39,9	35,4	32,3	-	-
ELFEXT [dB]	Typical value	75	63	55	51	48	45	39	35	31	29
	Cat. 5e* (min.)	64	52	44	40	38	34	28	24	-	-
PS ELFEXT [dB/100 m]	Typical value	72	60	52	48	45	42	36	32	28	26
	Cat. 5e* (min.)	61	49	41	37	35	31	25	21	-	-
Return Loss [dB]	Typical value	25	25	25	25	25	25	23,8	23	22	21
	Cat. 5e* (min.)	20	23	25	25	25	23,6	21,5	20,1	-	-

Applications	Cables standards	Cabling system standards	Cabling system installation standards
IEEE 802.3 IEEE 802.5 FDDI ATM RNIS	IEC 61156-5 EN 50288-1 à -6	IS 11801 ed.2 EN 50173 EIA/TIA 568	EN 50174

\* Category 5e acc. to EN50288

\*\* For information only