

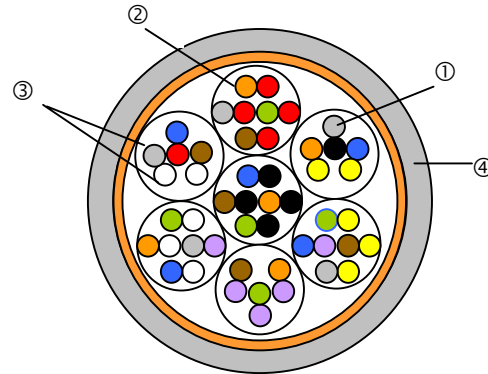
ACOLAN[®] - Copper

UTP Backbone - 100 Ohms - Category 5 - 25P - 24AWG



Description :

- ① Diameter of conductor : 24AWG
- ② Insulation : Ø Pe 0,90 mm
- ③ Cable assembly : pair
Number of pairs : 25
- ④ Sheath material : LSOH or PVC



Marking on outer jacket :

ACOME 25P 24AWG UTP 100 OHMS M CAT5 IS 11801
IEC 332-1 75C Batch number + Length marking

Electrical characteristics at 20°C :

Conductor resistance at 20°C (max.)	98,6 Ω/km
Dielectric strength at 50Hz (min.)	1 kV
Insulation resistance (min.)	5000 MΩ.km
Velocity (nom.)	66 %
Characteristic impedance (Zc) from 1 to 100 MHz	100 Ω

Environmental characteristics :

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

Mechanical characteristics :

ACOME Ref.	Number of pairs	Type of jacket (M)	Color of jacket	Conductor Ø (mm)	Insulation Ø (mm)	Cable Ø (mm) nominal	Weight of cable (kg/km)	Min. laying Bending radius (mm)	Max. pulling tension (N)
M4662	25P	LSOH	IVORY	0,51	0,90	12,5	175	105	490
M3926	25P	PVC (1)	GREY	0,51	0,90	12,5	170	105	490

Delivery length : 500 m on drum XL
1000 m on drum BC

Frequency [MHz]		1	4	10	16	20	31,25	62,5	100	155**	200**
Max. attenuat. [dB/100 m]	Typical value	2	4,1	6,5	8,1	9,1	11,7	17	22	28,1	32,4
	Cat. 5* (max.)	2,1	4,1	6,5	8,3	9,3	11,7	17	22	-	-
Min. Next [dB]	Typical value	66	57	51	48	46	44	39	36	33	20
	Cat. 5* (min.)	62	53	47	44	42	40	35	32	-	-
Min. ACR [dB]	Typical value	64	52,9	44,5	39,9	36,9	32,3	22	14	4,6	12,4
	Cat. 5* (min.)	59,9	48,9	40,5	35,7	32,7	28,3	18	10	-	-
Return Loss [dB]	Typical value	20	23	25	25	25	23,8	21,5	20,1	18,8	18
	Cat. 5* (min.)	-	-	-	-	-	-	-	-	-	-

Applications	Cables standards	Cabling system standards	Cabling system installation standards
IEEE 802.3 IEEE 802.5 FDDI ATM RNIS	IEC 61156-4 EN 50288-1 à 3-1 EN 50169	IS 11801 ed.2 EN 50173 EIA/TIA 568	EN 50174

* Category 5 acc. to EN50288
** For information only