

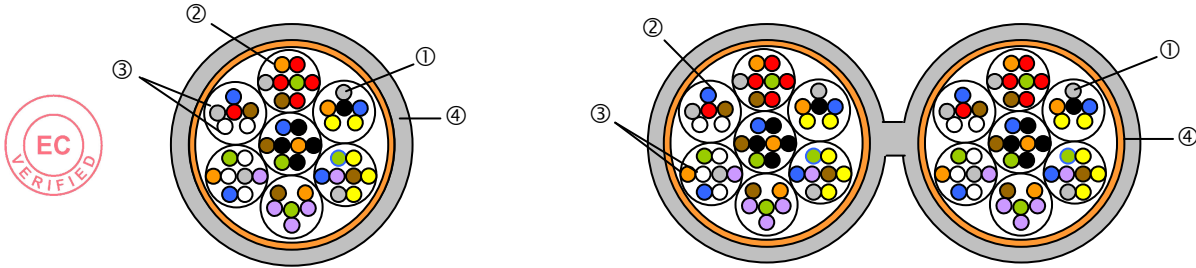
ACOLAN[®] 200 UU

Backbones U/UTP - 100 Ohms - 200 MHz - Category 5 - 25P and 50P LSOH or PVC



Possible applications

- High speed data transmission cables are designed for backbone distribution local computer networks.
- These cables are permitted the protocol supported by the **class D**.
- They are characterized at frequencies of up to **200 MHz**.



Cable construction

- ① - **Conductor diameter** : \varnothing 0.510 mm (24AWG)
- ② - **Insulation** : \varnothing Pe 0,90 mm
- ③ - **Cable assembly** : pairs
Number of pairs : 25 and 50 (2x25P)
- ④ - **Sheath material** : LSOH or PVC

Directive / standard

Applications	Cables	Cabling system standard	Cabling system installation standards	Directive
IEEE 802.3	IEC 61156-4	IS 11801	EN 50174	RoHS 2002/95/EC
IEE 802.5	EN 50288-3-1	EN 50173-1		
FDDI		EIA/TIA 568		
ATM				
RNIS				

Fire resistance

PVC sheath	LSOH sheath
IEC 60332-1 NF C 32-070 2.1 (C2)	IEC 60332-1 NF C 32-070 2.1 (C2) (smoke emission low) IEC 60754-1 IEC 60754-2 IEC 61034

Additional information and references

Type	Reference	Colour	Max diameter mm	Weight Kg/km	PCS		Max. pulling tension (N)	Delivery length	
					MJ/Km	KWh/m		500 m	1000 m
ACOLAN [®] 200 UU 25P LSOH	M4662	Ivory	12,50	166	1 790	0,497	490	Drum XL	Drum BC
ACOLAN [®] 200 UU 25P PVC	M3926	Grey	12,50	156	1 822	0,506	490		
ACOLAN [®] 200 UU 50P LSOH	M4814	Ivory	12,50 x 25,0	354	3 943	1,095	980	Cut	
ACOLAN [®] 200 UU 50P PVC	M4811	Grey	12,50 x 25,0	323	3 889	1,080	980		

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Mechanical characteristics :

Bending radius	Dynamic (installation)	≥ 100 mm
	Static (installed)	≥ 50 mm
Temperature range	In service	- 20°C at + 60°C
	At the installation	0°C at + 50°C
	Transport and storage	0°C at + 50°C

Electrical characteristics at 20°C

Complete conductor resistance		≤ 190 Ω / km
Resistance unbalance		≤ 2 %
Dielectric strength	Continuous current	1kV during 1 minute = no breakdown
Insulation resistance	(500 V)	≥ 5000 MΩ . km
Capacitance unbalance	Real-ground	≤ 1600 pF / km
Characteristic impedance	at 100 MHz	100 ± 5 Ω
Velocity	nominal	66 %

Transmission characteristics at 20°C

Frequency (MHz)		4	10	20	62.5	100	155**	200**
Max. attenuat. (dB/100m)	Typical value	4.1	6.5	9.1	17	22	27	30
	Cat. 5* (max.)	4.1	6.5	9.3	17	22	-	-
Min. Next (dB)	Typical value	57	51	46	39	36	33	31
	Cat. 5* (min.)	53	47	42	35	32	-	-
Min. ACR (dB)	Typical value	52.9	44.5	36.9	22	14	4.6	1
	Cat. 5* (min.)	48.9	40.5	32.7	18	10	-	-
Return Loss (dB)	Typical value	23	25	25	21.5	20.1	18.8	17,5
	Cat. 5* (min.)	-	-	-	-	-	-	-

* Category 5 acc. to IEC 61156-4

** For information only