

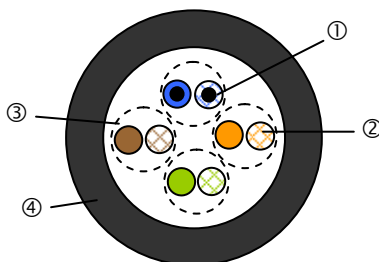
# ACOLAN<sup>®</sup> 200 UU

Horizontal Cable U/UTP - 100 Ohms - 200 MHz - Category 5e - 4P Pe



## Possible applications

- High speed data transmission cables are designed for horizontal cable distribution outdoor 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** :  $\varnothing$  0.500 mm (24AWG)
- ② - **Insulation** :  $\varnothing$  Pe 0,90 mm
- ③ - **Cable assembly** : pairs  
Number of pairs : 4
- ④ - **Sheath material** : Pe

## Directive / standard

Applications	Cables	Cabling system standard	Cabling system installation standards	Directive
IEEE 802.3	IEC 61156-5	IS 11801 ed.2	EN 50174	RoHS 2002/95/EC
IEE 802.5	EN 50288-2-1	EN 50173-1		
FDDI		EIA/TIA 568		
ATM				
RNIS				

## Mechanical characteristics :

Bending radius	Dynamic (installation)	$\geq 50$ mm
	Static (installed)	$\geq 25$ mm
Temperature range	In service	- 20°C at + 65°C
	At the installation	0°C at + 50°C
	Transport and storage	0°C at + 50°C

## Additional information and references

Type	Reference	Colour	Max diameter mm	Weight Kg/km	Max. pulling tension (N)	Delivery length 1000 m or 500 m
ACOLAN <sup>®</sup> 200 UU 4P Pe	<b>R7209A</b>	Black	5,10	25	80	Drum KC

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## Electrical characteristics at 20°C

Complete conductor resistance		≤ 190 Ω / km
Resistance unbalance		≤ 2 %
Dielectric strength	Continuous current	1kV during 1 minute
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	3.8	6	8.5	15.2	19.5	25	28
	Cat. 5e* (max.)	4.1	6.5	9.3	17	22	-	-
Min. Next (dB)	Typical value	63	57	52	45	42	39	37
	Cat. 5e* (min.)	56.3	50.3	45.8	38.4	35.3	-	-
Min. ACR (dB)	Typical value	59.2	51	43.5	29.8	22.5	14	9
	Cat. 5e* (min.)	52.2	43.8	36.5	21.4	13.3	-	-
PS Next (dB)	Typical value	60	54	49	42	39	36	34
	Cat. 5e* (min.)	53.3	47.3	42.8	35.4	32.3	-	-
ELFEXT (dB/100 m)	Typical value	63	55	48	39	35	31	29
	Cat. 5e* (min.)	52	44	38	28	24	-	-
PS ELFEXT (dB/100 m)	Typical value	60	52	45	36	32	28	26
	Cat. 5e* (min.)	49	41	35	25	21	-	-
Return Loss (dB)	Typical value	25	25	25	23.8	23	22	21
	Cat. 5e* (min.)	23	25	25	21.5	20.1	-	-

\* Category 5e acc. to IEC 61156-5

\*\* For information only