

ACOLAN® 400 UU - Eca

Horizontal Cable CAT.6 U/UTP
4P, LSOH-FR, 400MHz



Applications

- **High speed data transmission** cables are designed for backbone distribution local computer networks.
- These cables are permitted the protocol supported by the **class E**.
- They are characterized of up to **400 MHz**.
- They are compatibles with **PoE & PoE+, UPoE** applications.

Standards / Directive

Applications

IEEE 802.3: 10Base-T; 100Base-TX; 1000Base-T ;
1000Base-T ; 2,5G Base-T
IEEE 802.5 / FDDI / ATM / RNIS

Cables

IEC 61156-5 ed.2 / EN 50288-6-1

Cabling system standard

ISO/IEC 11801 2nd ed. / EN 50173-1 / TIA-568-C2

Cabling system installation standards

EN 50174

Directive / Regulation

RoHS 2011/65/UE
REACH 1907/2006/EC

FIRE EUROCLASS



Additional information and references

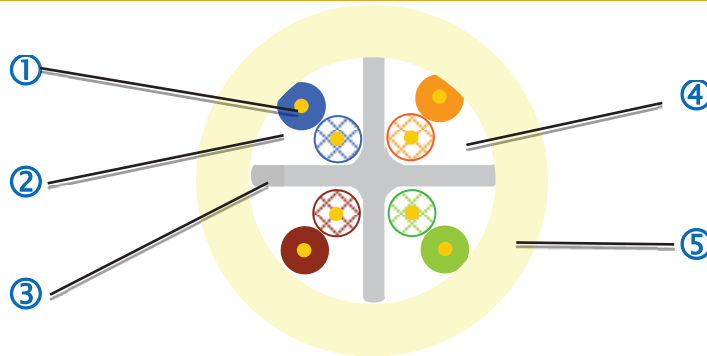
Designation ACOLAN®	Ref.	Colour	Diameter	Weight	Superior calorific capacity (PCS)		Max pulling tension
			mm	Kg/km	MJ/km	KWh/m	N
400 UU 4P LSOH-FR	R7550A-S	Ivory (RAL 9001)	5.30	33	394	0.110	90

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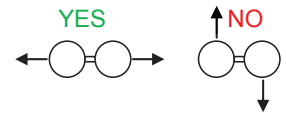
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Description




Cable separation



- | | |
|---------------------------|--|
| 1- Conductor | Solid annealed red copper wire, AWG 24
Colored polyethylene insulation $\varnothing \leq 0.95$ mm |
| 2- Cable element | Cable assembly in Twisted Pairs |
| 3- Cross separator | Symmetrical cross separator |
| 4- Stranding | 4 pairs assembly |
| 5- External sheath | LSOH-FR : Low Smoke « Zero » Halogen - Flame Retardant |

Fire behaviour

Europe

Type	Euroclass	Standards	Declaration of performance
4P	Eca	IEC 60332-1	16UUTP003  www.acome.fr

Outside Europe

No flame propagation	IEC 60332-1 / EN 60332-1
Low smoke opacity	IEC 61034-2 / EN 61034-2
Low gas corrosivity	IEC 60754-2 / EN 50267-2-2 / EN 50267-2-3
Low toxicity	IEC 60754-1 / EN 50267-1

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Mechanical characteristics

Characteristics		Values
Bending radius	Dynamic (installation)	≥ 45 mm
	Static (installed)	≥ 23 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

Characteristics		Values
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	Réel-terre	≤ 1600 pF / km
Characteristic impedance	at 100 MHz	100 ± 5 Ω
Velocity	nominal	66 %
Coupling attenuation		≥ 40 dB
Segregation classification acc.to En 50174.2		"d"

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Transmission characteristics at 20° C

Frequency (MHz)		4	10	20	62.5	100	250	300**	400**
Attenuation (dB/100m)	Typical value	3.7	5.8	8.4	15.0	19.2	31.5	34.5	42
	Imposition (max)*	3.8	6	8.5	15.5	19.9	33	-	-
Next (dB)	Typical value	69	63	59	51	48	42	41	38
	Imposition (min)*	65.3	59.3	54.8	47.4	44.3	38.3	-	-
ACR (dB)	Typical value	65.3	57.2	50.6	36	28.8	10.5	6.5	-
	Imposition (min)*	61.5	53.3	46.3	31.9	24.4	5.3	-	-
PS Next (dB)	Typical value	66	60	56	48	45	39	38	35
	Imposition (min)*	63.3	57.3	52.8	45.4	42.3	36.3	-	-
ELFEXT (dB/100 m)	Typical value	73	65	59	49	45	37	35	32
	Imposition (min)*	58	50	44	34.1	30	22	-	-
PS ELFEXT (dB/100 m)	Typical value	70	62	56	46	42	34	32	29
	Imposition (min)*	55	47	41	31.1	27	19	-	-
Return Loss (dB)	Typical value	27	27	27	25.8	25	22	22	21
	Imposition (min)*	23	25	25	21.5	20.1	17.3	-	-

* Category 6 according IEC 61 156-5 2nd ed.

** For information only

Delivery length

Type	References	Individual			Expedition		
		Type	Weight	EAN code	Quantity	Weight	EAN code
4P LSOH	R7550A - SB305	Acopack of 305 m	10.70 kg	3700223681457	24 boxes	280 kg	3700223681464
	R7550A - ST1000	Drum of 1000 m	35 kg	3700223681624	18 drums	652 kg	3700223681631
	R7550A - ST4000	Drum of 4000 m	146 kg	3700223681600	1 drum	164 kg	3700223681600