

ACOLAN® FIREPROTECT 550 UF - Cca

Horizontal Ethernet Cable 10Gb CAT.6_A U/FTP
4P, LSOH-FR, 550MHz



Applications

- **10 Gigabit high speed data transmission** cables are designed for horizontal cable distribution local computer networks.
- These cables allow the use of the protocol supported by the **E_A class** for the 10GBASE-T applications.
- They are characterized of up to **550 MHz**.
- They are compatibles with **PoE & PoE+ & UPoE** applications.

Standards / Directives

Applications

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

Cable

IEC 61156-5 ed.2 / EN 50288-10-1

Cabling system standard

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

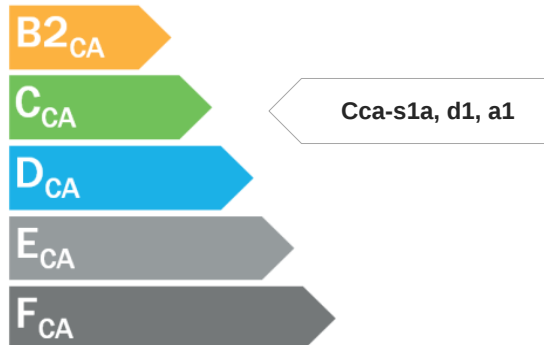
Cabling system installation standards

EN 50174

Directive / Regulation

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

FIRE EUROCLASS



Additional information and references

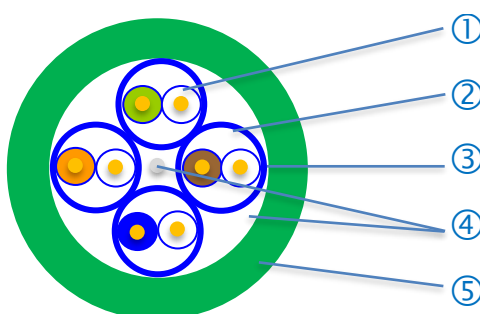
Designation ACOLAN®FIREPROTECT	Ref.	Colour	Diameter	Weight	Superior calorific capacity (PCS)		Max pulling tension
			mm	Kg/km	MJ/km	KWh/m	N
550 UF 4P LSOH-FR	R8593A	Green (RAL 6024)	7.10	45	469	0.130	98

ACOLAN® FIREPROTECT 550 UF - Cca

Horizontal Ethernet Cable 10Gb CAT.6_A U/FTP
4P, LSOH-FR, 550MHz



Description



- | | |
|---------------------------|---|
| 1- Conductor | Solid annealed red copper wire AWG 23
Foam skin Pe insulation $\varnothing \leq 1.40$ mm |
| 2- Cable element | Cable assembly in Twisted Pairs |
| 3- Pair screening | Pet/Alu foil around each pair |
| 4- Stranding | 4 pairs screening assembly and tinned drain wire AWG26 |
| 5- External sheath | LSOH-FR : Low Smoke « Zero » Halogen - Flame Retardant |

Fire behaviour

Europe

Type	Euroclass	Standards	Declaration of performance	
4P	Cca-s1a,d1,a1	IEC 60332-1, EN 50399, IEC 60754-2	17UFTP003	 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

ACOLAN® FIREPROTECT 550 UF - Cca

Horizontal Ethernet Cable 10Gb CAT.6_A U/FTP
4P, LSOH-FR, 550MHz



Mechanical characteristics

Characteristics		Values
Bending radius	Dynamic (installation)	≥ 60 mm
	Static (installed)	≥ 30 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		≤ 146.4 Ω / km	
Resistance unbalance		≤ 2 %	
Dielectric strength	Continuous current	1kV during1 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	78 %	
Coupling attenuation		≥ 70 dB	TYPE 1b
Transfer impedance	At 1 MHz	≤ 30 mΩ / m	GRADE 2
	At 10 MHz	≤ 30 mΩ / m	
	At 30 MHz	≤ 50 mΩ / m	
	At 100 MHz	≤ 100 mΩ / m	
Segregation classification acc. to EN 50174-2		"c"	

ACOLAN® FIREPROTECT 550 UF - Cca

Horizontal Ethernet Cable 10Gb CAT.6_A U/FTP
4P, LSOH-FR, 550MHz



Transmission characteristics at 20° C

Frequency (MHz)		4	10	20	62.5	100	250	500	550**
Attenuation (dB/100m)	Typical value	3.6	5.5	7.9	14.5	18.5	29.6	42.9	50
	Imposition (max)*	3.8	5.9	8.4	15	19.1	31.1	45.3	-
Next (dB)	Typical value	95	95	95	95	95	88	84	83
	Imposition (min)*	65.3	59.3	54.8	47.4	44.3	38.3	33.8	-
PS Next (dB)	Typical value	92	92	92	92	92	85	81	80
	Imposition (min)*	63.3	57.3	52.8	45.4	42.3	36.3	31.8	-
ELFEXT (dB/100 m)	Typical value	85	85	84	82	78	62	56	55
	Imposition (min)*	58	50	44	34.1	30	22	16	-
PS ELFEXT (dB/100 m)	Typical value	82	82	81	79	75	59	53	52
	Imposition (min)*	55	47	41	31.1	27	19	13	-
Return Loss (dB)	Typical value	26	28	28	26	24	22	19	18
	Imposition (min)*	23	25	25	21.5	20.1	17.3	17.3	-
PS ANEXT (dB)	Typical value	85	85	85	85	85	73	68	67
	Imposition (min)*	76.5	72.5	69.5	64.5	62.5	56.5	52	-

* Category 6a according IEC 61156-5 Ed. 2

** For information only

Delivery length

Type	References	Individual			Expedition		
		Type	Weight	EAN code	Quantity	Weight	EAN code
4P LSOH-FR	R8593A-T500	Drum KT of 500 m	25 kg	3700223696017	18 drums	455 kg	3700223696000
	R8593A-T1000	Drum XC of 1000 m	49 kg	3700223696024	6 drums	306 kg	3700223696031