

ACOLAN[®] FIREPROTECT 1000 SF-S ECO - Cca

Horizontal Ethernet Cable 10Gb CAT.7 S/FTP
4P, LSOH-FR, 1000MHz



Applications

- 10 Gigabit High speed data transmission cables are designed for **DATA CENTER** and for **CONSOLIDATION POINT**.
- Maximum length cable recommended : **70 m**.
- These cables allow the use of the protocol supported by the **F class**.
- They are characterized of up to **1000 MHz**.
- They are compatibles with **PoE & PoE+** 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 50288-4-1 *

Cabling system standard

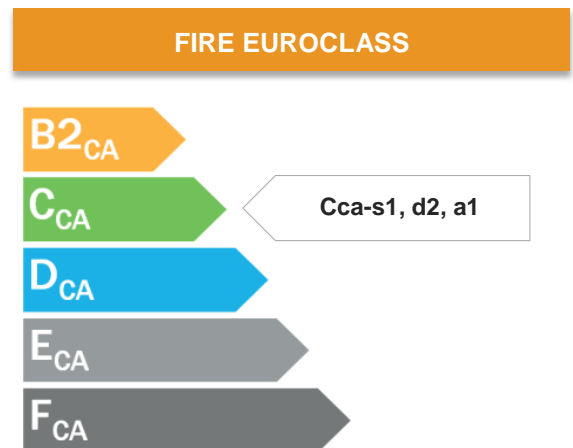
ISO/IEC 11801 2nd ed. / EN 50173-1 / EN 50173-5

Cabling system installation standard

EN 50174

Directive / Regulation

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



Additional information and references

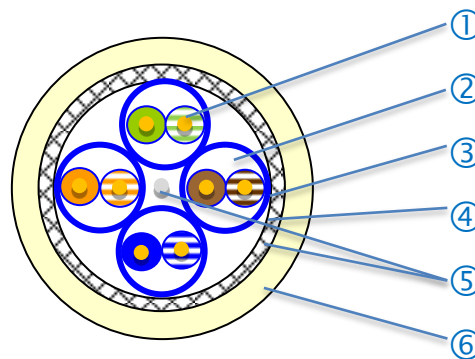
Designation ACOLAN FIREPROTECT [®]	Réf.	Colour	Diameter	Weight	PCS (superior calorific capacity)		Max. pulling tension
			mm	Kg/km	MJ/km	KWh/m	N
1000 SF-S ECO 4P LSOH-FR	R7600A	Ivory (RAL 9001)	5.90	38	365	0.101	55

ACOLAN[®] FIREPROTECT 1000 SF-S ECO - Cca

Horizontal Ethernet Cable 10Gb CAT.7 S/FTP
4P, LSOH-FR, 1000MHz




Description



- | | |
|---------------------------|--|
| 1- Conductor | Solid annealed red copper wire, AWG 26
Foam skin Pe insulation $\varnothing \leq 1.00$ mm |
| 2- Cable element | Cable assembly in Twisted Pairs |
| 3- Pair screening | Pet/Alu foil around each pair |
| 4- Stranding | 4 pairs screening assembly |
| 5- Screen | Tinned copper braid and drain wire AWG26 tinned |
| 6- External sheath | LSOH-FR : Low Smoke « Zero » Halogen - Flame Retardant |

Fire behaviour

Europe

Type	Euroclass	Standards	Declaration of performance	
4P	Cca-s1,d2,a1	IEC 60332-1, EN 50399, IEC 60754-2	17SFTP007	 www.acome.fr

Outside Europe

No flame propagation	IEC 60332-1 / EN 60332-1
No fire propagation	IEC 60332-3-24 / EN 60332-3-24
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 1000 SF-S ECO - Cca

Horizontal Ethernet Cable 10Gb CAT.7 S/FTP
4P, LSOH-FR, 1000MHz



Mechanical characteristics

Characteristics		Values
Bending radius	Dynamic (installation)	≥ 45 mm
	Static (installed)	≥ 25 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		≤250 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	78 %	
Coupling attenuation		≥ 80 dB	TYPE 1b
Transfer impedance	At 1 MHz	≤ 10 mΩ / m	GRADE 1
	At 10 MHz	≤ 10 mΩ / m	
	At 30 MHz	≤ 20 mΩ / m	
	At 100 MHz	≤ 30 mΩ / m	
Segregation classification acc.to En 50174.2		"d"	

ACOLAN[®] FIREPROTECT 1000 SF-S ECO - Cca

Horizontal Ethernet Cable 10Gb CAT.7 S/FTP
4P, LSOH-FR, 1000MHz



Transmission characteristics at 20° C

Frequency (MHz)		4	10	20	62.5	100	250	300	600	1000**
Attenuation (dB/100m)	Typical value	3.4	5.7	8.2	14.5	18.5	29.4	32.5	47.8	60
	Imposition for 70m*	3.9	6.2	8.7	15.6	20	32.6	35.9	52.6	-
Next (dB)	Typical value	90	90	90	90	90	88	87	82	78
	Imposition for 70m*	78	78	78	75	72	66	65	61	-
PS Next (dB)	Typical value	87	87	87	87	87	85	84	79	75
	Imposition for 70m*	75	75	75	72	69	63	62	58	-
ELFEXT (dB/100 m)	Typical value	84	80	74	64	60	52	50	44	38
	Imposition for 70m*	78	74	68	59	55	48	46	41	-
PS ELFEXT (dB/100 m)	Typical value	81	77	71	61	57	49	47	41	35
	Imposition for 70m*	75	71	65	56	52	45	43	38	-
Return Loss (dB)	Typical value	26	28	28	28	24	22	21	19	18
	Imposition for 70m*	23	25	25	21.5	20.1	17.3	17.3	17.3	-

* Category 7 according IEC 61156-5

** For information only

Delivery length

Type	References	Individual			Expedition		
		Type	Weight	EAN code	Type	Weight	EAN code
4P LSOH-FR	R7600A – T500	Drum KC of 500 m	22 kg	3700223669127	18 drums	398 kg	3700223669134
	R7600A-T1000	Drum KL of 1000 m	41 kg	3700223669103	12 drums	503 kg	3700223669110