

# ACOLAN® FIREPROTECT 1000 SF-P - Cca

Horizontal Ethernet Cable 10Gb CAT.7 S/FTP  
4P - 2x4P, LSOH-FR, 1000MHz



## 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 **F class** for the 10 GBASE-T applications.
- They are characterized of up to **1000 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 50288-4-1

### Cabling system standard

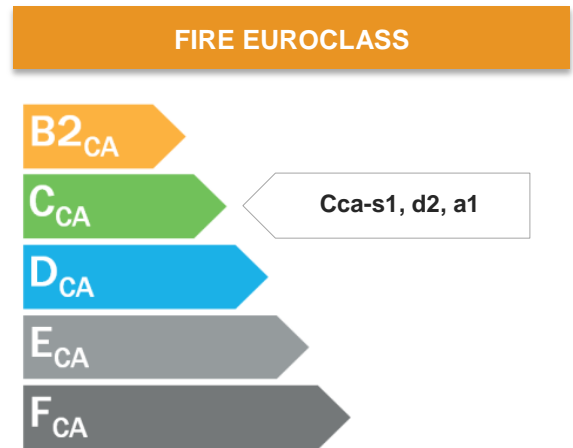
ISO/IEC 11801 2<sup>nd</sup> ed. / EN 50173-1

### 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	
1000 SF-P 4P LSOH-FR *	R7478A	Green (RAL 6024)	7,40	54	459	0,127	95
1000 SFD-P 2x4P LSOH-FR	R7480A	Green (RAL 6024)	7,40 x 15,40	115	988	0,274	190

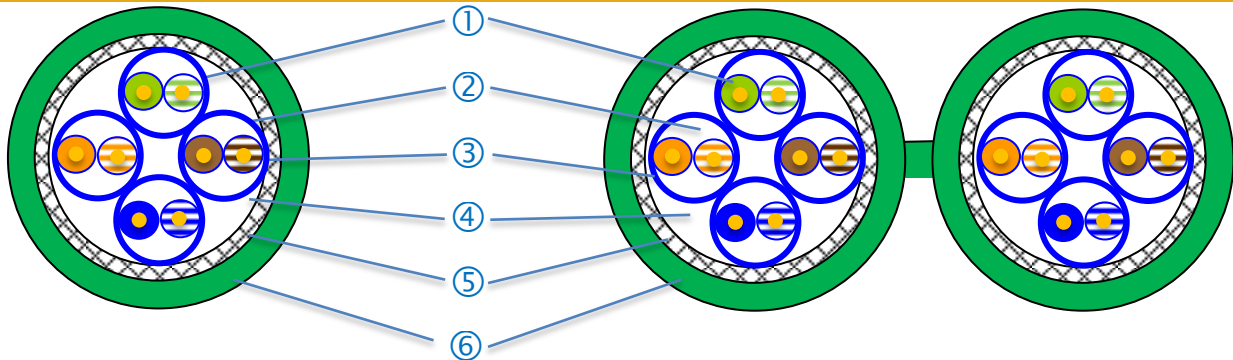
\*EC verified : in structure 4P

# ACOLAN<sup>®</sup> FIREPROTECT 1000 SF-P - Cca

Horizontal Ethernet Cable 10Gb CAT.7 S/FTP  
4P - 2x4P, LSOH-FR, 1000MHz

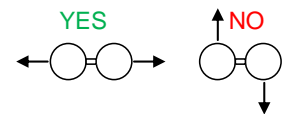


## Description




- |   |  |
|---|--|
| <p>1- <b>Conductor</b></p> <p>2- <b>Cable element</b></p> <p>3- <b>Pair screening</b></p> <p>4- <b>Stranding</b></p> <p>5- <b>Screen</b></p> <p>6- <b>External sheath</b></p> | <p>Solid annealed red copper wire, AWG 23<br/>Foam skin Pe insulation <math>\varnothing &lt; 1.40</math> mm</p> <p>Cable assembly in Twisted Pairs</p> <p>Pet/Alu foil around each pair</p> <p>4 pairs screening assembly</p> <p>Tinned copper braid</p> <p>LSOH-FR : Low Smoke « Zero » Halogen - Flame Retardant</p> |
|---|--|

### Cable separation



## Fire behaviour

### Europe

Type	Euroclass	Standards	Declaration of performance	
4P	Cca-s1,d2,a1	IEC 60332-1, EN 50399, IEC 60754-2	17SFTP003	 www.acome.fr
2x4P			17SFTP006	

### 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<sup>®</sup> FIREPROTECT 1000 SF-P - Cca

Horizontal Ethernet Cable 10Gb CAT.7 S/FTP  
4P - 2x4P, LSOH-FR, 1000MHz



## 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 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		≥ 85 dB	<b>TYPE 1</b>
Transfer impedance	At 1 MHz	≤ 8 mΩ / m	<b>GRADE 1</b>
	At 10 MHz	≤ 8 mΩ / m	
	At 30 MHz	≤ 10 mΩ / m	
	At 100 MHz	≤ 20 mΩ / m	
Segregation classification acc. To EN 50174-2		"d"	

# ACOLAN® FIREPROTECT 1000 SF-P - Cca

Horizontal Ethernet Cable 10Gb CAT.7 S/FTP  
4P - 2x4P, 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	3.6	5.5	7.9	14.5	18.5	29.6	32.8	47.6	63.8
	Imposition (max)*	3.7	5.9	8.3	14.9	19	31	34.2	50,1	-
Next (dB)	Typical value	95	95	95	95	95	88	87	82	78
	Imposition (min)*	78	78	78	75	72	66	65	61	-
PS Next (dB)	Typical value	92	92	92	92	92	85	84	79	75
	Imposition (min)*	75	75	75	72	69	63	62	58	-
ELFEXT (dB/100 m)	Typical value	85	85	84	82	78	70	67	55	52
	Imposition (min)*	78	74	68	58	54	46	44	38	-
PS ELFEXT (dB/100 m)	Typical value	82	82	81	79	75	67	64	52	49
	Imposition (min)*	75	71	65	55	51	43	41	35	-
Return Loss (dB)	Typical value	26	26	26	26	24	22	21	19	18
	Imposition (min)*	23	25	25	21.5	20.1	17.3	17.3	17.3	-

\* Category 7 according IEC 61 156-5

\*\* For information only

## Delivery length

Type	References	Individual			Expedition		
		Type	Weight	EAN code	Type	Weight	EAN code
4P LSOH-FR	R7478A T500	KT Drum of 500 m	29 kg	3700223663705	18 drums	540 kg	3700223633289
	R7478A -T1000	XL Drum of 1000 m	59 kg	3700223653706	4 drums	251 kg	3700223633296
2x4P LSOH-FR	R7480A-T500	XL Drum of 500 m	61 kg	3700223653713	4 drums	258 kg	3700223633302
	R7480A -T1000	AC Drum of 1000 m	122 kg	3700223663729	4 drums	501 kg	3700223633319