

# R8436A-T500

## ACOLAN® COPPER FIREPROTECT

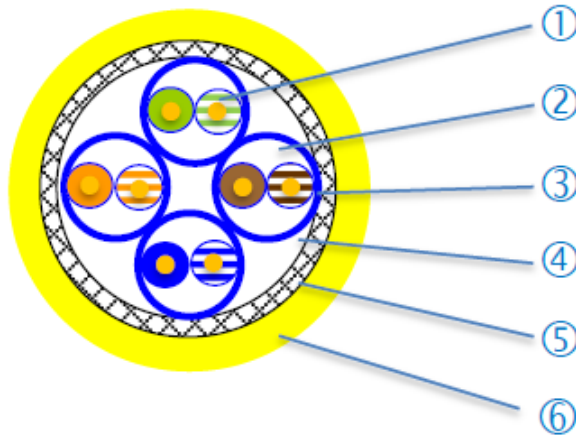
S/FTP Cat.7 1000 MHz LSOH-FR 4P DRUM 500m - YELLOW

### 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 & 4PPoE (PoE++) applications.

See our White Paper on installation conditions on [www.acle.com](http://www.acle.com) also available on demand.

### GENERAL CHARACTERISTICS



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
5. Screen	Tinned copper braid
6. External sheath	LSOH-FR : Low Smoke « Zero » Halogen - Flame Retardant

## GENERAL

Designation ACOLAN FIREPROTECT	Réf.	Colour	Diameter	Weight	PCS (superior calorific capacity)		Max. pulling tension
			mm	Kg/km	MJ/km	KWh/m	N
1000 SF-P 4P LSOH-FR	R8436A	Yellow	7,70	63	597	0.166	95

## MECHANICAL

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		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	TYPE 1
Transfer impedance	At 1 MHz	≤ 8 mΩ / m	GRADE 1
	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"	

Frequency (MHz)		4	10	20	62.5	100	250	300	600	1000**		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	-		Attenuation(dB/100m)											
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	-												

## NORMS AND STANDARDS

### GENERAL



#### Applications

- IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 2,5G Base-T,
- 5G Base-T, 10G Base-T
- IEEE 802.3 af (PoE) / 802.3 at (PoE+) / 802.3 bt (4PPoE 90W)
- 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

#### Cabling system installation standard

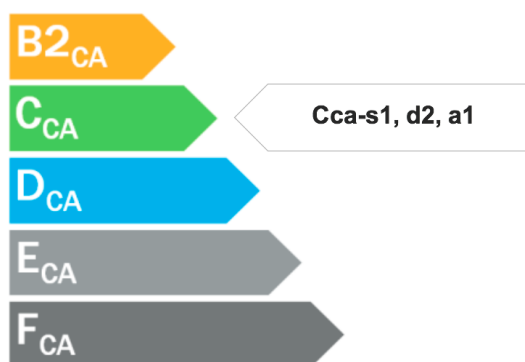
EN 50174

#### Directive / Regulation

RoHS 2011/65/UE

REACH 1907/2006/EC

### EUROCLASS



## FIRE BEHAVIOUR

Europe

Type	Euroclass	Standards	Declaration of performance
4P	Cca-s1,d2,a1	IEC 60332-1, EN 50399, IEC 60754-2	17SFTP016

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 60754-2
Low toxicity	IEC 60754-1 / EN 60754-1

## RECOMMENDATIONS

### DELIVERY LENGTH

Type	References	Individual			Expedition		
		Type	Weight	EAN code	Type	Weight	EAN code
4P LSOH-FR	R8436A-T500	KT Drum of 500 m	34 kg	3700223699513	18 drums	615kg	3700223699506
	R8436A-T1000	XL Drum of 1000 m	68 kg	3700223699537	4 drums	284kg	3700223699520