

R7118A-T500 | ACOLAN® COPPER

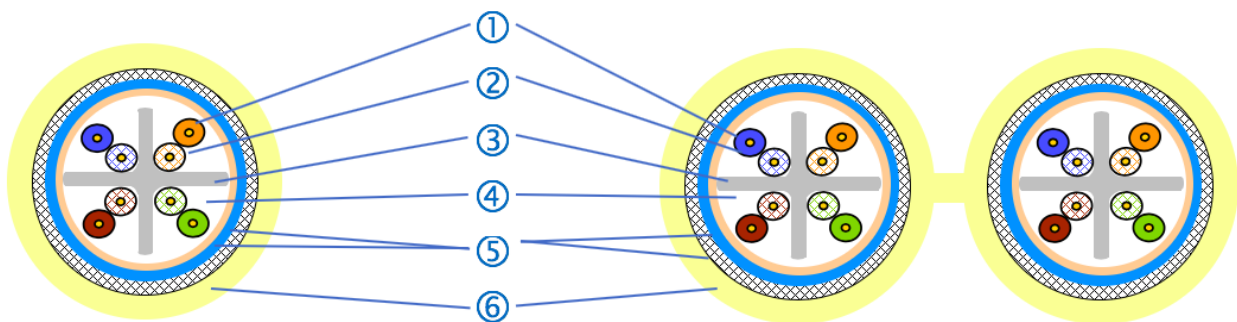
SF/UTP Cat.6 450 MHz LSOH 4P DRUM 500m - IVORY

BENEFITS

APPLICATIONS

- 2,5 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 class applications.
- They are characterized of up to 450 MHz.
- They are compatibles with PoE, PoE+ & UPoE applications.

GENERAL CHARACTERISTICS



1. Conductor	Solid annealed red copper wire AWG 24 Colored polyethylene insulation \varnothing 1.10 mm
2. Cable element	Cable assembly in Twisted Pairs
3. Separator	Symmetrical cross separator
4. Cable assembly	4 pairs assembly with overall polyester tape

5. Screen	Pet/Alu foil and tinned copper braid
6. External sheath	LSOH: Low Smoke « Zero » Halogen - Flame Retardant

GENERAL

Designation ACOLAN	Ref.	Colour	Diameter	Weight	Superior calorific capacity (PCS)		Max pulling tension
			mm	Kg/km	MJ/km	KWh/m	N
450 SFU-S 4P LSOH-FR	R7118A	Ivory (RAL 9001)	7.60	55	835	0,232	80
450 SFUD-S 2x4P LSOH-FR	R7120A	Ivory (RAL 9001)	7,60 x 15,30	116	1824	0,507	160

MECHANICAL

Characteristics		Values
Bending radius	Dynamic (installation)	≥ 65 mm
	Static (installed)	≥ 35 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

Electrical characteristics at 20°C (68°F)

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	Real-ground	≤ 1200 pF / km	
Characteristic impedance	at 100 MHz	100 ± 5 Ω	
Velocity	Nominal	66 %	
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	≤ 80 mΩ / m	
	At 100 MHz	≤ 150 mΩ / m	
Segregation classification acc. EN 50174-2		"c"	

NORMS AND STANDARDS

GENERAL



Applications

IEEE 802.3 :10Base-T; 100Base-TX;1000Base-T; 2,5GBase-T
 IEEE 802.3 af (PoE) / 802.3 at (PoE+)
 IEEE 802.5 / FDDI / ATM / RNIS

Cables

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

Cabling system standards

ISO 11801 2nd ed. / EN 50173-1 / TIA 568.2-D

Cabling system installation standards

EN 50174

Directive / Regulation

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

EUROCLASS



FIRE BEHAVIOUR

Europe

Type	Euroclass	Standards	Declaration of performance
4P	Dca-s2,d2,a2	IEC 60332-1, EN 50399, IEC 60754-2	17SFUTP05
2x4P			17SFUTP06



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

CONDITIONNEMENTS

Type	Références	Unitaire			D'expédition		
		Type	Poids	Code EAN	Quantité	Poids	Code EAN
4P LSOH-FR	R7118A-T500	Touret KL de 500 m	30 kg	3700223666676	12 tourets	381 kg	3700223608676
	R7118A-T1000	Touret XL de 1000 m	60 kg	3700223653782	4 tourets	256 kg	3700223608683
2x4P LSOH-FR	R7120A-T500	Touret XL de 500 m	61 kg	3700223653799	4 tourets	260 kg	3700223608690
	R7120A-T1000	Touret AC de 1000 m	122 kg	3700223666706	4 tourets	504 kg	3700223608706