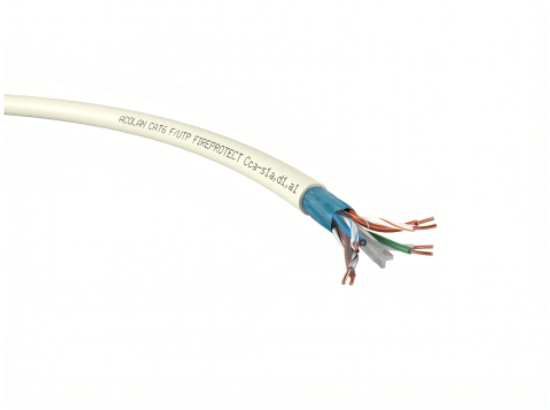


CATEGORY 6 F/UTP ACOLAN COPPER CCA

- F/UTP Category 6
- 450 MHz
- Ivory sheath, LSOH-FR
- Cca

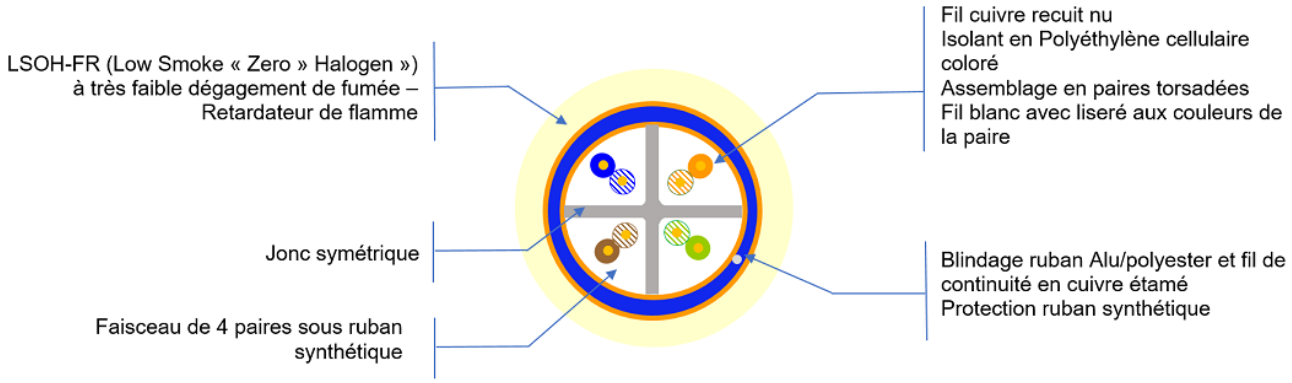
BENEFITS

- Enhanced fire performance, Euroclass Cca
- Compatible with PoE, PoE+ and UPoE applications
- Reduced cable diameter and space requirements

APPLICATIONS

- Very high-speed 2.5 Gigabit data cables designed for Local Area Networks (LAN) and horizontal cabling links.
- Support all protocols covered by Class E requirements and are characterized up to 450 MHz.

GENERAL CHARACTERISTICS



GENERAL

Designation ACOLAN FIREPROTECT	Ref.	Colour	Diameter	Weight	Superior calorific capacity (PCS)		Max pulling tension
			mm	Kg/km	MJ/km	KWh/m	N
450 FU 4P LSOH-FR	R7597A	Vert (RAL 6024)	6.30	42	531	0.147	80

MECHANICAL

Characteristics		Values
Bending radius	Dynamic (installation)	≥ 50 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

TRANSMISSION

Frequency (MHz)		4	10	20	62.5	100	250	300	450**
Attenuation (dB/100m)	Typical value	3.6	5.7	8.3	14.8	19	31	34	43
	Imposition (max)*	3.8	6	8.5	15.5	19.9	33	-	-
Next (dB)	Typical value	71	65	61	53	50	44	43	40
	Imposition (min)*	66	60	56	48	45	39	-	-
ACR (dB)	Typical value	67.4	59.3	52.7	38.2	31	13	9	
	Imposition (min)*	62.2	54	47.5	32.5	25.1	6	-	-
PS Next (dB)	Typical value	68	62	58	50	47	41	40	37
	Imposition (min)*	63.3	57.3	52.8	45.4	42.3	36.3	-	-
ELFEXT (dB/100 m)	Typical value	73	65	59	49	45	37	35	32
	Imposition (min)*	56	48	42	32	28	20	-	-
PS ELFEXT (dB/100 m)	Typical value	70	62	56	46	42	34	32	29
	Imposition (min)*	53	45	39	29	25	17	-	-
Return Loss (dB)	Typical value	27	27	27	25.8	25	22	22	21
	Imposition (min)*	23	25	25	21.5	20.1	17.3	-	-

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

** For information only

ELECTRICAL

Electrical characteristics at 20°C (68°F)

Characteristics		Values	
Complete conductor resistance		≤ 190 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	à 100 MHz	100 ± 5 Ω	
Velocity	nominal	78 %	
Coupling attenuation		≥ 55 dB	TYPE 2
Transfer impedance	At 1 MHz	≤ 40 mΩ / m	GRADE 2
	At 10 MHz	≤ 40 mΩ / m	
	At 30 MHz	≤ 50 mΩ / m	
	At 100 MHz	≤ 200 mΩ / m	
Segregation classification acc. EN 50174-2		“c”	

RANGE

Type	References	Unit			Shipping		
		Type	Poids	Code EAN	Quantity	Weight	EAN Code
4P LSOH-FR	R7597A-C100	Coil of 100 m	4,4 kg	3701581511912	30 coils	147 Kg	3701581511905
	R7597A-RB300	Box of 300 m	15 Kg	3701581511394	18 boxes	284 Kg	3701581511387
	R7597A-T500	KC drum of 500m	25 kg	3700223635283	18 drums	462 kg	3700223635290
	R7597A-T1000	XC drum of 1000m	49 kg	3701581508349	6 drums	309 kg	3701581508332
2x4P LSOH-FR	R7598A-T500	XC drum of 500m	45 kg	3701581508295	6 drums	285 kg	3701581508288
	R7598A-T1000	AC drum of 1000m	92 kg	3701581508325	4 drums	381 kg	3701581508318

NORMS AND STANDARDS

GENERAL

450 Mhz

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

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

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

Cabling system installation standard
EN 50174

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

FIRE BEHAVIOUR

Europe

Type	Euroclass	Standards	Declaration of performance	
4P	Cca-s1a,d1,a1	IEC 60332-1, EN 50399, IEC 60754-2	18FUTP012	

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

RECOMMENDATIONS

DELIVERY LENGTH

Type	References	Individual			Shipping		
		Type	Weight	EAN code	Quantity	Weight	EAN code
4P LSOH-FR	R7597A-T500	KC drum of 500 m	23 kg	3700223635283	18 drums	428 kg	3700223635290