

R8600A ACOLAN COPPER

S/FTP Cat.7 1000 MHz 4P LSOH-FR - BLACK

BENEFITS

- Indoor/outdoor use
- 10 Gb/s
- Compatible with direct attach plug RJ45

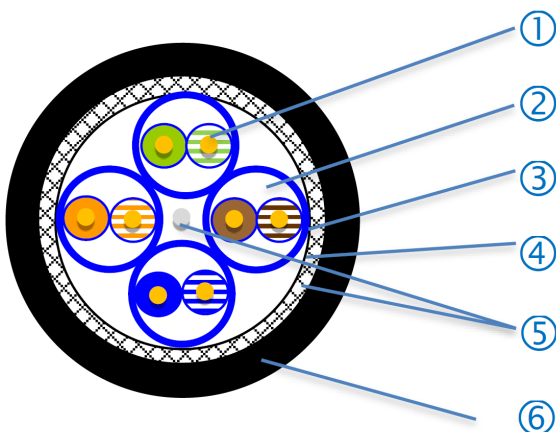
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Ideal for connecting terminals (cameras, ...)

APPLICATIONS

- 10 Gigabit High speed data transmission cables are designed for backbone distribution local computer networks.
- Protected by a black UV resistant LSOH-FR sheath for outdoor use.
- Maximum length cable recommended : 70 m.
- 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 also available on demand

GENERAL CHARACTERISTICS



1. Conductor	Solid annealed red copper wire, AWG 26 Foam skin Pe insulation $\Delta E \leq 1.00$ 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 and UV resistant

GENERAL

Designation ACOLAN	Ref.	Colour	Diameter	Weight	Superior calorific capacity (PCS)		Max pulling tension
			mm	Kg/km	MJ/km	KWh/m	N
1000 SF-S 4P LSOH-FR IN&OUT	R8600A	Black	5.90	38	365	0.101	55

MECHANICAL

Characteristics		Values
Bending radius	Dynamic (installation)	≥ 45 mm
	Static (installed)	≥ 25 mm
Temperature range	In service	- 40°C at + 75°C
	At the installation	- 20°C at + 60°C
	Transport and storage	- 40°C at + 75°C
Waterproofness		IP67

ELECTRICAL

Electrical characteristics at 20°C (68°F)

Characteristics		Values	
Complete conductor resistance		≤ 250 W / km	
Resistance unbalance		≤ 2 %	
Dielectric strength	Continuous current	1kV during 1 minute = No breakdown	
Insulation resistance	(500 V)	≥ 5000 MW . km	
Capacitance unbalance	Real-ground	≤ 1600 pF / km	
Characteristic impedance	at 100 MHz	100 ± 5 W	
Velocity	nominal	78 %	
Coupling attenuation		≥ 80 dB	TYPE 1b
Transfer impedance	At 1 MHz	≤ 10 mW / m	GRADE 1
	At 10 MHz	≤ 10 mW / m	
	At 30 MHz	≤ 20 mW / m	
	At 100 MHz	≤ 30 mW / m	
Segregation classification acc.to En 50174.2		"d"	

Transmission

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	29.6	32.8	47.6	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

RANGE

DELIVERY LENGTH

Type	References	Individual			Expedition		
		Type	Weight	EAN code	Quantity	Weight	EAN code
4P LSOH-FR	R8600A - T500	Drum KC of 500 m	21 kg	3700223649303	18 drums	391 kg	3700223649297
	R8600A - RB300	Box of 300 m	14 kg	3700223647705	18 boxes	264 kg	3700223647699

NORMS AND STANDARDS

GENERAL



Applications

IEEE 802.3 :10Base-T; 100Base-TX;1000Base-T; 2,5GBase-T ;

5GBase-T ; 10GBase -T

IEEE 802.3 af (PoE) / 802.3 at (PoE+) / 802.3 bt (4PPoE 90W)

IEEE 802.5 / FDDI / ATM / RNIS

Cables

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 standards

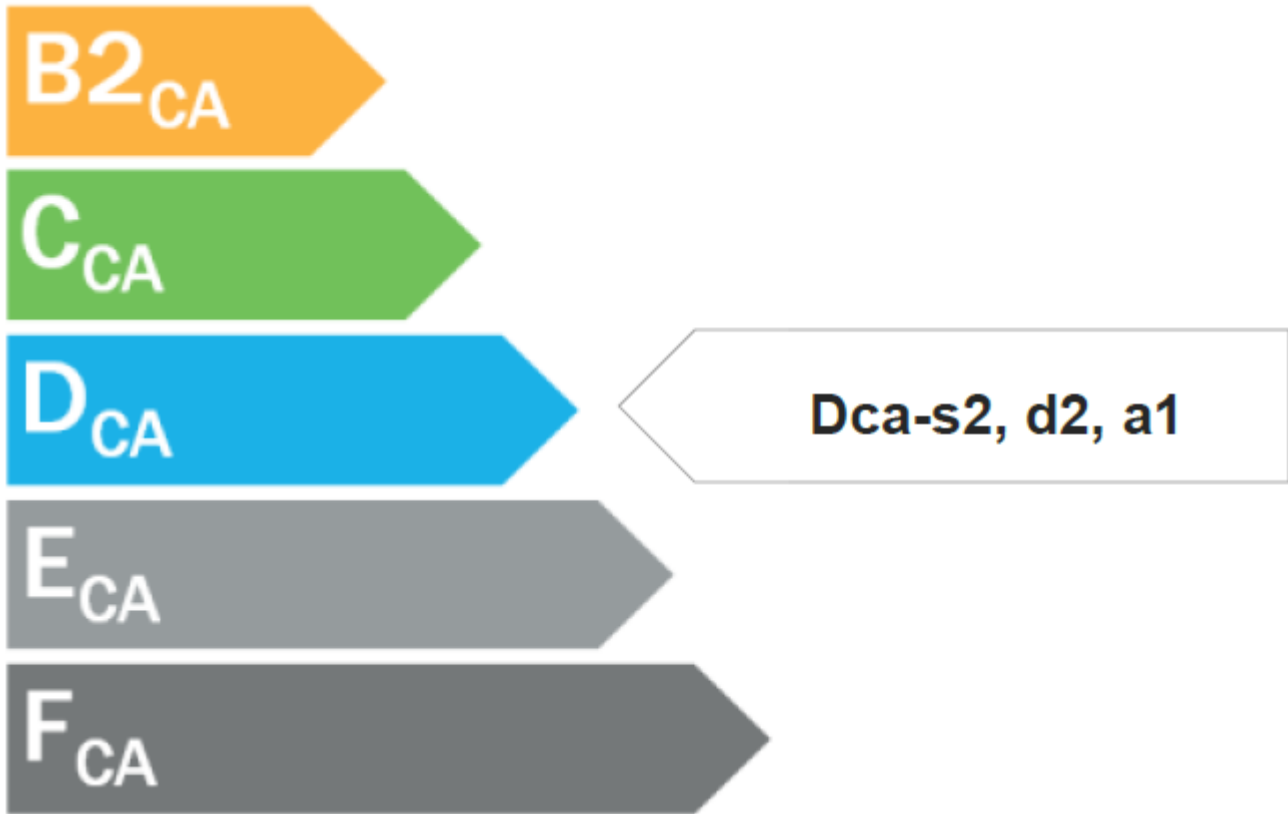
EN 50174

Directive / Regulation

RoHS 2011/65/UE

REACH 1907/2006/EC

EUROCLASS



FIRE BEHAVIOUR

Europe

Type	Euroclass	Standards	Declaration of performance
4P	EDca-s2,d2,a1ca	IEC 60332-1, EN 50399, IEC 60754-2	22SFTP024

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

Field Plug RJ45 compatible

Most RJ45 field plugs are compatible with the cable including :
 R&M FM45 C6A
 Metz connect C6A RJ45 field plug pro - Réf 130E405032 - E