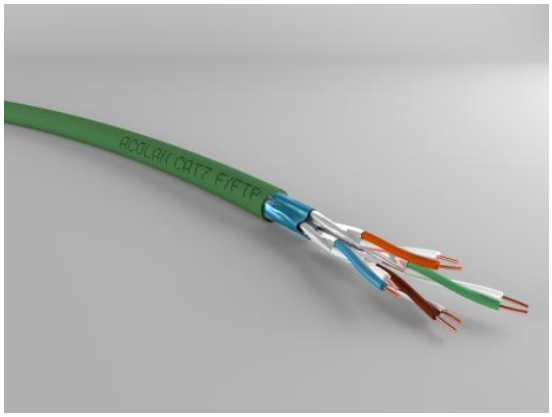


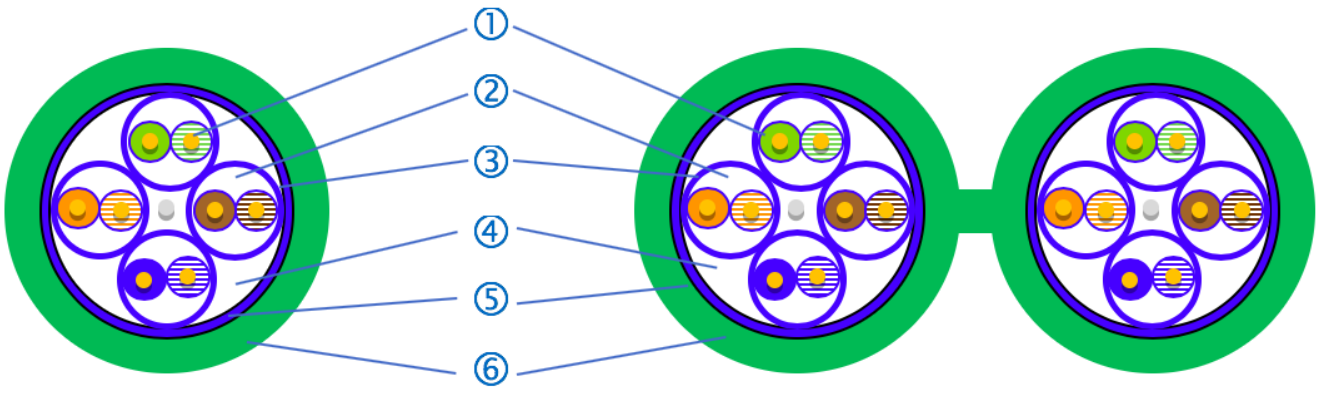
R7586A-T500 ACOLAN® COPPER FIREPROTECT

F/FTP Cat.7 1000 MHz 2x4P LSOH-FR DRUM 500m - GREEN

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 10GBASE-T applications.
- They are characterized of up to 1000 MHz.
- They are compatibles with PoE & PoE+, UPoE & 4PPoE (PoE++) applications.

GENERAL CHARACTERISTICS



1. Conductor	Solid annealed red copper wire, AWG 23 Foam skin Pe insulation Æ ≤ 1.45 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	Pet/Alu foil and tinned drain wire AWG26
6. External sheath	LSOH-FR : Low Smoke « Zero » Halogen - Flame Retardant

GENERAL

Designation ACOLAN	Ref.	Colour	Diameter	Weight	Superior calorificcapacity (PCS)		Max pulling tension
			mm	Kg/km	MJ/km	KWh/m	N
1000 FF 4P LSOH-FR	R7585A	Green (RAL 6024)	7.50	55	550	0.153	95
1000 FFD 2x4P LSOH-FR	R7586A	Green (RAL 6024)	7.50x15.50	105	1125	0.312	190

*EC verified : structure 4P & 2x4P

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

TRANSMISSION

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 61156-5

** For information only

ELECTRICAL

Electrical characteristics at 20°C (68°F)

Characteristics		Values	
Complete conductor resistance		≤ 146.4Ω / 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	at 100 MHz	100 ± 5 Ω	
Velocity	nominal	78 %	
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	≤ 50 mΩ / m	
	At 100 MHz	≤ 100 mΩ / m	
Segregation classification acc. to EN 50174.2		''c''	

NORMS AND STANDARDS

GENERAL

EC

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

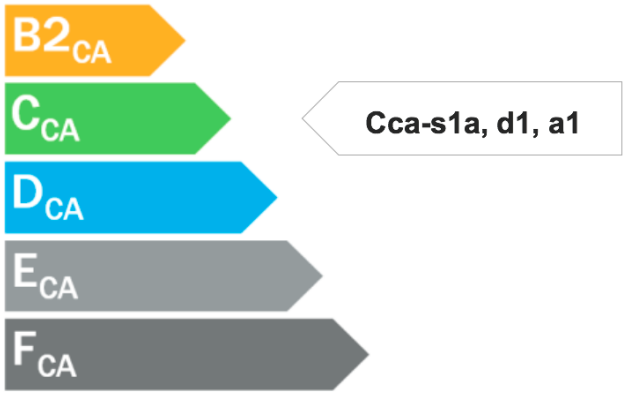
Cables
IEC 61156-5 ed.2 / EN 50288-4-1

Cabling system standard
ISO/IEC 11801 2nd ed. / EN 50173-1 / EN 50173-5

Cabling system installation 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-s1a,d1,a1	IEC 60332-1, EN 50399, IEC 60754-2	17FFTP010	
2x4P			18FFTP009	

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			Expedition		
		Type	Weight	EAN code	Quantity	Weight	EAN code
4P LSOH-FR	R7585A – T500	Drum KT of 500 m	30 kg	3700223696246	18 drums	545 kg	3700223696253
	R7585A-T1000	Drum XL of 1000 m	58 kg	3700223696239	4 drums	255 kg	3700223696222
2x4P LSOH-FR	R7586A – T500	Drum XL of 500 m	58 kg	3700223696260	4 drums	245 kg	3700223696277
	R7586A-T1000	Drum AC of 1000 m	115 kg	----------	4 drums	475 kg	----------