

## R8550A-ST500 ACOLAN® COPPER FIREPROTECT

U/UTP Cat.6 400 MHz 4P LSOH-FR DRUM 500m- GREEN

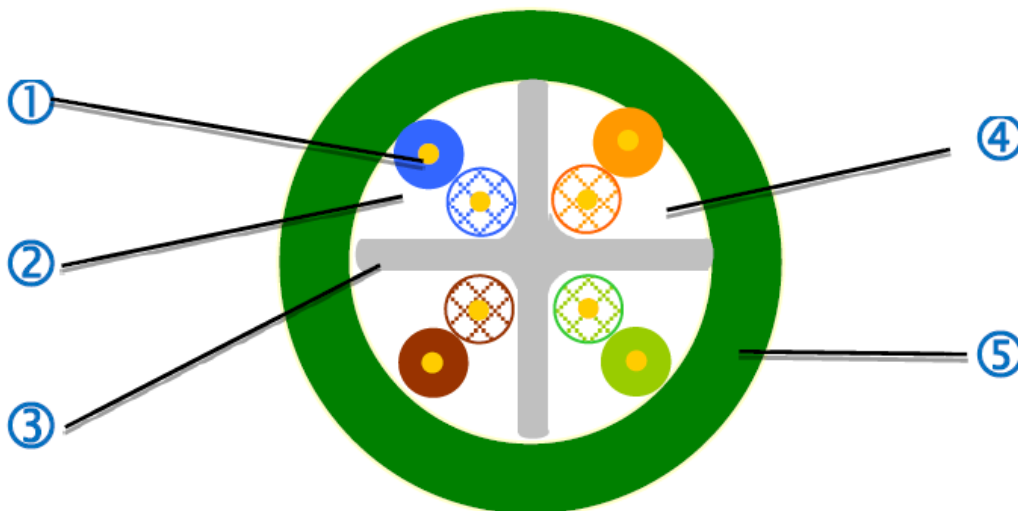
### BENEFITS

- Improved Fire performance Euroclass Cca
- Small diameter

### APPLICATIONS

- High speed data transmission cables are designed for backbone distribution local computer networks.
- These cables are permitted the protocol supported by the class E.
- They are characterized of up to 400 MHz and are compatibles with PoE & PoE+, UPoE applications.

### GENERAL CHARACTERISTICS



1. Conductor	Solid annealed red copper wire, AWG 24 Colored polyethylene insulation $\varnothing \leq 1$ mm
2. Cable element	Cable assembly in Twisted Pairs
3. Separator	Symetrical cross separator
4. Cable assembly	4 pairs assembly
5. External sheath	LSOH-FR: Low Smoke « Zero » Halogen - Flame Retardant

## GENERAL

Designation ACOLAN FIREPROTECT	Ref.	Colour	Diameter	Weight	Superior calorific capacity (PCS))		Max pulling tension
			mm	Kg/km	MJ/km	KWh/m	N
400 UU 4P LSOH-FR	R8550A-S	Green (RAL6024)	5.80	40	505	0.140	90

## MECHANICAL

Characteristics		Values
Bending radius	Dynamic (installation)	$\geq 50$ mm
	Static (installed)	$\geq 25$ 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

## ELECTRICAL

Transmission characteristics at 20° C

Characteristics		Values
Complete conductor resistance		$\leq 190 \Omega / \text{km}$
Resistance unbalance		$\leq 2 \%$
Dielectric strength	Continuous current	1kV during 1 minute = No breakdown
Insulation resistance	(500 V)	$\geq 5000 \text{ M}\Omega \cdot \text{km}$
Capacitance unbalance	Real-ground	$\leq 1600 \text{ pF} / \text{km}$
Characteristic impedance	à 100 MHz	$100 \pm 5 \Omega$
Velocity	nominal	66 %
Coupling attenuation		$\geq 40 \text{ dB}$ TYPE 3
Segregation classification acc. EN 50174-2		"b"

Frequency (MHz)		4	10	20	62.5	100	250	300**	450**	Attenuation (dB/100m)	Typical value	3.8	6	8.5	15.4	19.8	32.8	34.5	42	
Imposition (max)*	3.8	6	8.5	15.5	19.9	33	-	-												
Next (dB)	Typical value	69	63	59	51	48	42	41	38											
	Imposition (min)*	65.3	59.3	54.8	47.4	44.3	38.3	-	-											
ACR (dB)	Typical value	65.3	57.2	50.6	36	28.8	10.5	6.5												
	Imposition (min)*	61.5	53.3	46.3	31.9	24.4	5.3		-											
PS Next (dB)	Typical value	66	60	56	48	45	39	38	35											
	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)*	58	50	44	34.1	30	22	-	-											
PS ELFEXT (dB/100 m)	Typical value	70	62	56	46	42	34	32	29											
	Imposition (min)*	55	47	41	31.1	27	19	-	-											
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

\*\* For information only

## NORMS AND STANDARDS

### GENERAL



# 400 Mhz

#### 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 50288-6-1

#### 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

## EUROCLASS



## FIRE BEHAVIOUR

Europe

Type	Euroclass	Standards	Declaration of performance
4P	Cca-s1a,d1,a1	IEC 60332-1, EN 50399, IEC 60754-2	19UUTP011 

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	R8550A - SB305	RiB of 305 m	15 kg	3700223638796	18 boxes	292 kg	3700223638802
	R8550A - ST500	Drum of 500 m	22 kg	3700223638819	18 drums	418 kg	3700223638826
	R8550A - ST1000	Drum of 1000 m	43 kg	3700223639144	12 drums	538 kg	3700223639151