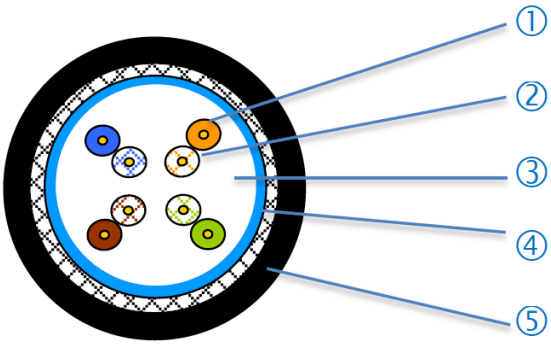
R7435B-T500
ACOLAN COPPER

SF/UTP Cat.5e 200 MHz 4P LSOH-FR DRUM 500m - BLACK

APPLICATIONS

- High speed data transmission cables are designed for horizontal cable distribution local computer networks.
- Protected by a black UV resistant LSOH-FR sheath for outdoor use.
- These cables are permitted the protocol supported by the class D.
- They are characterized of up to 200 MHz.
- They are compatibles with PoE & PoE+, UPoE applications.

GENERAL CHARACTERISTICS



1. Conductor	Solid annealed red copper wire, AWG 24 Colored polyethylene insulation □ ≤ 1.00 mm
2. Cable element	Cable assembly in Twisted Pairs
3. Cable assembly	4 pairs assembly
4. Screen	Pet/Alu foil and tinned copper braid (80%)
5. External sheath	LSOH-FR UV stabilize Low Smoke « Zero » Halogen - Flame Retardant

GENERAL

Designation ACOLANâ	Ref.	Colour	Diameter	Weight	Superior calorificcapacity (PCS)		Max pulling tension
			mm	Kg/km	MJ/km	KWh/m	N
200 SFU-S 4P LSOH-FR IN/OUT	R7435B	Black	6.80 to 7.10	69	665	0,185	500

MECHANICAL

Characteristics		Values
Bending radius	Dynamic (installation)	≥ 60 mm
	Static (installed)	≥ 30 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	Minimum	IP67

ELECTRICAL

Characteristics		Values	
Complete conductor resistance	Any conductor Shield	≤ 95 Ω / km ≤ 10.50 Ω / km	
Resistance unbalance		≤ 2 %	
Dielectric strength	Continuous current	1.5 kV during 1 minute = no breakdown 5 kV DC during 3 seconds = 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	66 %	
Coupling attenuation		≥ 85 dB	TYPE 1
Transfert impedance	at 1 MHz	≤ 10 MΩ / m	GRADE 1
	at 10 MHz	≤ 10 MΩ / m	
	at 30 MHz	≤ 20 MΩ / m	
	at 100 MHz	≤ 30 MΩ / m	
Segregation classification acc. EN 50174-2		"d"	

Transmission characteristics at 20° C

Frequency (MHz)		4	10	20	62.5	100	155**	200**
Imposition (max)*	4.1	6.5	9.3	17	22	-	-	
Next (dB)	Typical value	63	57	52	45	42	39	37
	Imposition (min)*	56.3	50.3	45.8	38.4	35.3	-	-
ACR (dB)	Typical value	59.2	51	43.5	29.8	22.5	14	9
	Imposition (min)*	52.2	43.8	36.5	21.4	13.3	-	-
PS Next (dB)	Typical value	60	54	49	42	39	36	34
	Imposition (min)*	53.3	47.3	42.8	35.4	32.3	-	-
ELFEXT (dB/100 m)	Typical value	63	55	48	39	35	31	29
	Imposition (min)*	52	44	38	28	24	-	-
PS ELFEXT (dB/100 m)	Typical value	60	52	45	36	32	28	26
	Imposition (min)*	49	41	35	25	21	-	-
Return Loss (dB)	Typical value	25	25	25	23.8	23	22	21
	Imposition (min)*	23	25	25	21.5	20.1	-	-

Attenuation (dB/100m)	Typical value	3.8	6	8.5	15.2	19.5	25	28

NORMS AND STANDARDS

GENERAL

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

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

Cabling system standard
ISO/IEC 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	Eca	IEC 60332-1	17SFUTP03	

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	R7435B-T500	Drum KT of 500 m	37 kg	3700223679553	18 drums	681 kg	3700223679546
	R7435B-T1000	Drum XC of 1000 m	74 kg	3700223679539	6 drums	457 kg	3700223679522