

ACOLAN[®] 900 SF-P

Horizontal Cables S/FTP - 100 Ohms - 900 MHz - Category 7 - 4P and 2x4P LSFROH

Behaviour with
fire



Applications

- 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 class F.
- They are characterized of up to 900 MHz.



Cable construction

- ① - **Conductor diameter** : Ø 0.560 mm (23AWG)
- ② - **Insulation** : Ø Pe 1,45 mm
- ③ - **Cable assembly** : pairs
Number of pairs : 4 and 8 (2x4)
- ④ - **Individual screen around each pair** : Alu/Polyester tape conductor
- ⑤ - **Shield** : Reinforced copper braid
- ⑥ - **Sheath material** : LSFROH

Colour code

- Blue + White
- Orange + White
- Green + White
- Brown + White

Directive / standard

Applications	Cables	Cabling system standard	Cabling system installation standards	Directive
IEEE 802.3	IEC 61156-5	IS 11801 ed.2	EN 50174	RoHS 2002/95/EC
IEE 802.5	EN 50288-4-1	EN 50173-1		
FDDI		EIA/TIA 568		
ATM				
RNIS				

Fire resistance

- LSFROH sheath**
- IEC 60332-1
 - IEC 60332-3C
 - NF C 32-070 2.1 (C2)
 - NF C 32-070 2.2 (C1)
(smoke emission low)
 - IEC 60754-1 - IEC 60754-2
 - IEC 61034

Additional information and references

Type	Reference	Colour	Max diameter mm	Weight Kg/km	PCS (superior calorific capacity)		Max. pulling tension (N)	Delivery length	
					MJ/Km	KWh/m		500 m	1000 m
ACOLAN [®] 900 SF-P 4P LSFROH	R7478	Vert RAL 6024	7,70	59	658	0,183	95	Touret KL	Touret XL
ACOLAN [®] 900 SFD-P 2x4P LSFROH	R7480	Vert RAL 6024	7,90x16,00	119	1 348	0,375	190	Touret XL	Touret AC

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Mechanical characteristics :

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

Electrical characteristics at 20°C

Complete conductor resistance		≤ 146,4 Ω / km
Resistance unbalance		≤ 2 %
Dielectric strength	Continuous current 50 Hz	1kV during 1 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 %
Transfer impedance	at 1 MHz	≤ 8 mΩ / m
	at 10 MHz	≤ 8 mΩ / m
	at 30 MHz	≤ 10 mΩ / m
	at 100 MHz	≤ 20 mΩ / m

Transmission characteristics at 20°C

Frequency (MHz)		4	10	20	62.5	100	250	300	600	900**
Max. attenuat. (dB/100m)	Typical value	3.6	5.5	7.9	14.5	18.5	29.6	32.8	47.6	60
	Cat. 7* (max.)	3.7	5.9	8.3	14.9	19	31	34.2	50.1	-
Min. Next (dB)	Typical value	90	90	90	90	85	77	76	73	70
	Cat. 7* (min.)	78	78	78	75	72	66	65	61	-
Min. ACR (dB)	Typical value	86.4	84.5	82.1	75.5	66.5	47.4	43.2	25.4	10
	Cat. 7* (min.)	74.3	72.1	69.7	60.5	53	35	30.8	10.9	-
PS Next (dB)	Typical value	87	87	87	87	82	74	73	70	67
	Cat. 7* (min.)	75	75	75	72	69	63	62	58	-
ELFEXT (dB/100 m)	Typical value	86	85	82	76	72	60	57	42	38
	Cat. 7* (min.)	78	74	68	58	54	46	44	38	-
PS ELFEXT (dB/100 m)	Typical value	83	82	79	73	69	57	54	39	35
	Cat. 7* (min.)	75	71	65	55	51	43	41	35	-
Return Loss (dB)	Typical value	26	26	26	26	24	22	21	19	18
	Cat. 7* (min.)	23	25	25	21.5	20.1	17.3	17.3	17.3	-

* Category 7 acc. to IEC 61156-5

** For information only