

ACOLAN® 1000 SF-P

Horizontal Ethernet Cable 10Gb CAT.7 S/FTP
4P – Pe OUTDOOR, 1000MHz



Applications

- **10 Gigabit high speed data transmission** cables are designed for horizontal cable distribution local computer networks.
- Protected by a black UV resistant PE sheath for outdoor use.
- 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** applications.

Standards / Directives

Applications

IEEE 802.3: 10Base-T; 100Base-TX; 1000Base-T; 2,5G Base-T,
5G Base-T, 10G Base-T
IEEE 802.5 / FDDI / ATM / RNIS

Cable

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

Cabling system standard

ISO/IEC 11801 2nd ed. / EN 50173-1

Cabling system installation standard

EN 50174

Directive / Regulation

RoHS 2011/65/UE
REACH 1907/2006/EC

Additional information and references

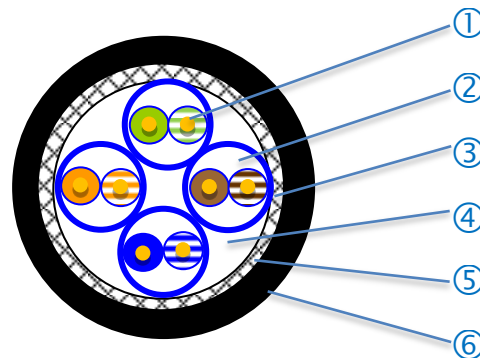
Designation ACOLAN®	Ref.	Colour	Diameter	Weight	Max. pulling tension
			mm	Kg/km	N
1000 SF-P 4P Pe	R7470A	Black	7,90	51	95

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Description



- | | |
|---------------------------|---|
| 1- Conductor | Solid annealed red copper wire, AWG 23
Foam skin Pe insulation $\varnothing < 1.40$ mm |
| 2- Cable element | Cable assembly in Twisted Pairs |
| 3- Pair screening | Alu/Polyester tape conductor around each pair |
| 4- Stranding | 4 pairs screening assembly |
| 5- Screen | Tinned cooper braid |
| 6- External sheath | Black MDL polyethylene |

Mechanical characteristics

Characteristics		Values
Bending radius	Dynamic (installation)	≥ 60 mm
	Static (installed)	≥ 30 mm
Temperature range	In service	- 40°C à + 75°C
	At the installation	20°C à + 60°C
	Transport and storage	40°C à + 75°C

Delivery length

Type	References	Individual			Expedition		
		Type	Weight	EAN code	Type	Weight	EAN code
4P Pe	R7470A-T500	Drum KL of 500 m	28 kg	3700223667024	12 Drums	354 kg	3700223679560
	R7470A -T1000	Drum XL of 1000 m	55 kg	3700223667031	4 drum	238 kg	3700223679577

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Electrical characteristics at 20°C

Characteristics		Values
Complete conductor resistance		≤ 146.4 Ω / km
Resistance unbalance		≤ 2 %
Dielectric strength	Continuous current	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 %
Coupling attenuation		≥ 85 dB
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
Segregation classification acc. To EN 50174-2		"d"

TYPE 1

GRADE 1

Transmission characteristics at 20°C

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 61 156-5

** For information only

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