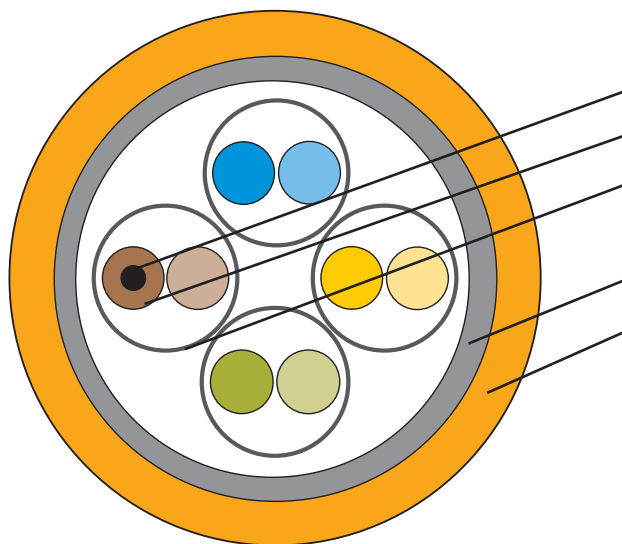


## Inst Cable Cat.7 S/FTP



### Cable construction

1. Conductor diameter:  $\varnothing$  0.560 mm (23AWG)
2. Insulation:  $\varnothing$  Pe 1,45 mm
3. Individual screen around each pair :  
Alu/Polyester tape conductor
4. Shield: Copper braid
5. Sheath material: LSFROH
6. Cable assembly: pairs - Number of pairs: 4

### Color code

- P1 Blue-White/Blue
- P2 Orange-White/Orange
- P3 Green-White/Green
- P4 Brown-White/Brown

### Directive / standard

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

### 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	Colour	Max diameter mm	Weight kg/km	PCS (superior Calorific capacity)		Max pulling tension (N)
				MJ/Km	KWh/m	
equip pro S/FTP Cat. 7 Inst Cable 900MHZ	Orange RAL 2003	7,70	58	626	0,174	95

## Inst Cable Cat.7 S/FTP

### 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	≤ 1600pF / km
Characteristic impedance	at 100MHz	100 ± 5 Ω
Velocity	nominal	78%
Transfer impedance	at 1 MHz	≤ 10m Ω / m
	at 10 MHz	≤ 10m Ω / m
	at 30 MHz	≤ 20m Ω / m
	at 100 MHz	≤ 30m Ω / 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	60.1	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