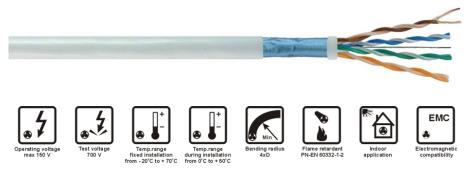




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FTP (L) kat.5e 4x2x0,5 mm - 155 MHz

LOCAL AREA NETWORK CABLES



APPLICATIONS

FTP (L) kat.5e 4x2x0,5 mm cables are intended for multimedia computer networks (data, sound and HDTV transmission), including structural wiring of buildings, applied in industrial and other dedicated networks sensitive to electromagnetic interferences.

The overall shield protects the cables against external electromagnetic interferences and prevents emission of interferences produced in the cables.

The cables are also applied in computer networks of increased binary transfer where simultaneous transmission in both directions in all 4 symmetrical circuits is used (full duplex, Gigabit Ethernet technique).

The cables are suitable for fixed indoor installations.

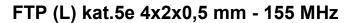
CONSTRUCTION

- annealed copper single wire conductors of diameter 0.48 mm,
- polyethylene (PE) insulation coloured: white-blue and blue, white-orange and orange, white-green and green, white-brown and brown,
- insulated conductors twisted into pairs,
- pairs laid-up into a cable core,
- collective shield, incorporating an aluminium-polyester tape and an annealed tinned copper single drain wire of diameter 0.4 mm,
- PVC cable sheath, grey RAL 7035, other colours also available.

AVAILABLE UPON REQUEST

FTP-H (L) kat.5e 4x2x0,5 mm - halogen free material sheathed cables applied in locations where, in case of fire, higher safety level is required. The cables are flame retardant and their smoke emission is low, emitted fumes are non toxic and non corrosive.





CHARACTERISTICS

CE	RoHS
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Characteristic impedance Mutual capacitance of any pair at 1 kHz, approximate	100 ± 15 Ω 50 nF/km	Minimum shielding attenuation at the frequency f=30 ÷ 1000 MHz - min.	50 dB
Capacitance unbalance of any pair to ground at 1 kHz, max.	1600 pF/km	Shielding impedance at 10 MHz, maximum	100 mΩ/m
Insulation resistance, minimum	5000 MΩ·km	DC loop resistance at 20°C, maximum	210 Ω/km
Operating voltage Voltage test	150 V 700 V rms	Resistance unbalance of any pair of conductors, max.	2 %
Velocity of propagation Return loss, minimum	65 %	Phase delay dispersion	45 ns/100 m
at f=4÷10 MHz	20+5lg(f) dB	Phase delay T	534+36/√f ns/100 m
Return loss, minimum at f=10÷20 MHz Return loss, minimum	25 dB	Operating temperature range during operation during installation	from - 20 to + 70°C from 0 to + 50°C
at f=20÷155 MHz	25-8.6lg(f/20)dB	Minimum bending radius	4 x cable diameter
		Cable combustibility	flame retardant
		Combustibility tests	PN-EN 60332-1-2, IEC 60332-1-2

Attenuation loss, maximum

f	[MHz]	1	4	8	10	16	20	25	31.25	62.5	100	155
Α	[dB/100 m]	2.1	4.3	5.9	6.6	8.2	9.2	10.5	11.8	17.1	22	28.1

Reference standards

Near end cross-talk between pairs, minimum

f	[MHz]	1	4	8	10	16	20	25	31.25	62.5	100	155
NEXT	[dB]	65.3	56.3	51.8	50.3	47.3	45.8	44.3	42.9	38.4	35.3	32.5
PSNEXT	[dB]	62.3	53.3	48.8	47.3	44.3	42.8	41.3	39.9	35.4	32.3	29.5
ACR	[dB]	68.3	57.2	51.0	48.8	44.0	41.5	38.9	36.2	26.4	18.3	4.4

Far end cross-talk between pairs, minimum

f	[MHz]	1	4	8	10	16	20	25	31.25	62.5	100	155
ELFEXT	[dB]	63.8	51.7	45.7	43.8	39.7	37.7	35.8	33.9	27.8	23.8	19.9
PSELFEXT	[dB]	60.8	48.7	42.7	40.8	36.7	34.7	32.8	30.9	24.8	20.8	16.9

CE = the cable meets requirements of the low voltage directive 2014/35/EU

Product No.	Number of pairs (x 2) x conductor diameter	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)	
	mm	mm	kg/km	kg/km	
0013 019	4 x 2 x 0,5	5.3	14.8	30.0	

TECHNOKABEL S.A. reserves the right to change specifications without prior notice.

PN-EN 50288-2-1, IEC 61156-5 ISO/IEC 11801, TIA/EIA 568 A