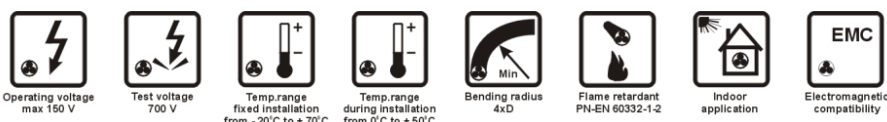


**FTP-C kat.5e 4x2x0,14c mm<sup>2</sup>**

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**LOCAL AREA NETWORK CABLES****APPLICATIONS**

**FTP-C kat.5e 4x2x0,14c mm<sup>2</sup>** are patch cables, applied in multimedia computer networks (data, sound and HDTV transmission) including structural wiring of buildings, 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**

- flexible, multiwire conductors, stranded of annealed tin-plated copper wires, cross-section 0.14 mm<sup>2</sup> (7x0.16 mm), 26 AWG,
- 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 a tinned copper wire braid,
- PVC cable sheath, grey RAL 7035, other colours also available.

**AVAILABLE UPON REQUEST**

**FTP-C-H kat.5e 4x2x0,14c mm<sup>2</sup>** - 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.

**FTP-C-11Y kat.5e 4x2x0,14c mm<sup>2</sup>** - soft polyurethane sheathed cables (11Y) of enhanced protection against mechanical damage, particularly to abrasion and tear, also resistant to oils, petrol, bacteria and ultraviolet radiation.

# FTP-C kat.5e 4x2x0,14c mm<sup>2</sup>

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## CHARACTERISTICS

Characteristic impedance	100 ± 5 Ω	Minimum shielding attenuation at the frequency f= 30 ÷ 1000 MHz - min.	50 dB
Mutual capacitance of any pair at 1 kHz, approximate	50 nF/km	Shielding impedance at 10 MHz, maximum	100 mΩ/m
Capacitance unbalance of any pair to ground at 1 kHz, max.	1600 pF/km	DC loop resistance at 20°C, maximum	290 Ω/km
Insulation resistance, minimum	5000 MΩ·km	Resistance unbalance of any pair of conductors, max.	2 %
Operating voltage	150 V	Operating temperature range during operation	from - 20 to + 70°C
Voltage test	700 V rms	during installation	from 0 to + 50°C
Current-carrying capacity, maximum	175 mA	Minimum bending radius	4 x cable diameter
Velocity of propagation	65 %	Cable combustibility	flame retardant
Return loss, minimum at f=4÷10 MHz	25+5lg(f) dB	Combustibility tests	PN-EN 60332-1-2, 60332-1-2
Return loss, minimum at f=10÷20 MHz	25 dB	Reference standards	PN-EN 50288-2-2, IEC 61156-6
Return loss, minimum at f=20÷125 MHz	25-8.6lg(f/20) dB		ISO/IEC 11801, TIA/EIA 568 A

### Attenuation loss, maximum

f	[MHz]	1	4	10	16	20	31.25	62.5	100
A	[dB/100 m]	3.2	6.0	9.5	12.1	13.6	17.1	24.8	32

### Near end cross-talk between pairs, minimum

f	[MHz]	1	4	8	10	16	20	25	31.25	62.5	100
NEXT	[dB]	65.3	56.3	51.8	50.3	47.2	45.8	44.3	42.9	38.4	35.3
PSNEXT	[dB]	62.3	53.3	48.8	47.3	44.2	42.8	41.3	39.9	35.4	32.3
ACR	[dB]	62.1	50.3	43.3	40.8	35.1	32.2	29.1	25.8	13.6	3.3

### Far end cross-talk between pairs, minimum

f	[MHz]	1	4	8	10	16	20	25	31.25	62.5	100
ELFEXT	[dB]	63.8	51.8	45.7	43.8	39.7	37.8	35.8	33.9	27.9	23.8
PSELFEXT	[dB]	60.8	48.8	42.7	40.8	36.7	34.8	32.8	30.9	24.9	20.8

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

Product No.	Number of pairs (x 2) x conductor cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm	mm	kg/km	kg/km
0014 002	4 x 2 x 0,14c	5.6	24.2	38.5

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