



ISO 9001:2008

FTP-C-O kat.5e 4x2x0,14c mm²

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LOCAL AREA NETWORK CABLES

























APPLICATIONS

FTP-C-O kat.5e 4x2x0,14c mm² 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).

Sheathing PVC of high oxygen index is UV radiation and weather resistant, is self-extinguishing and flame retardant. The cables pass combustibility test according to PN-EN 60332-3 standard.

The cables are oil-resistant and designed for frequent contact with petroleum products, as in petrol stations and stores, where engine fuels and lubricants are pumped or handled.

The cables are suitable for fixed indoor and outdoor installations.

CONSTRUCTION

- flexible, multiwire conductors, stranded of annealed tin-plated copper wires, cross-section 0.14 mm² (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,
- oil, petrol and UV radiation resistant and self-extinguishing (oxygen index bigger than 29%) PVC cable sheath, blue RAL 5015, other colours also available.





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CHARACTERISTICS

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

Return loss, minimum

at f=20÷125 MHz 25-8.6lg(f/20) dB

PN-EN 60811-404 Oil resistance

Reference standards PN-EN 50288-2-2, IEC 61156-6

ISO/IEC 11801, TIA/EIA 568 A

Attenuation loss, maximum

Ī	f	MHz	1	4	10	16	20	31.25	62.5	100
Ī	Α	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

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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

C ∈ = 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 ²		kg/km	kg/km	
0014 005	0014 005 4 x 2 x 0,14c		24.2	69	

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