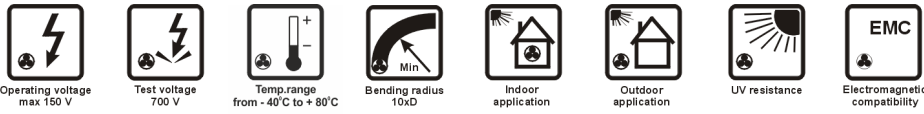


## MILITARY FLEXIBLE FIELD CABLE LAN 5E PKM kat.5e 4x2x0,34 mm<sup>2</sup>



### APPLICATIONS

PKM kat.5e 4x2x0,34 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 special polyurethane used for the coating ensures that the cable can operate at low temperatures, down to -40 °C, and is also resistant to cuts and abrasion.

The cable's design allows it to be mechanically unwound and wound without damage, suspended from natural and artificial supports, and laid on the ground, as well as traversing water obstacles when submerged in water to a depth of up to 10 meters.



### CHARACTERISTICS (electrical properties at 20°C)

Characteristic impedance	100 ± 5 Ω	Shielding impedance at 10 MHz, maximum	100 mΩ/m
Mutual capacitance of any pair at 1 kHz, approximate	50 nF/km	DC loop resistance at 20°C, maximum	120 Ω/km
Capacitance unbalance of any pair to ground at 1 kHz, max.	1600 pF/km	Conductor resistance asymmetry of any pairs, maximum	0.24 Ω/150m
Insulation resistance, minimum	5000 MΩ · km	Phase delay dispersion of symmetrical circuits	45 ns/100 m
Operating voltage	150 V	Phase delay T	534+36/√f ns/100 m
Voltage test	700 V rms	Operating temperature range	from - 40 to + 80°C
Current-carrying capacity, maximum	175 mA	Minimum bending radius	10 x cable diameter
Velocity of propagation	65%	Permissible tensile force when unwound	1.2 kN
Return loss, minimum at f=4 , 10 MHz	25-8,6lg(f/20) dB	Breaking force - minimum	2.5 kN
Return loss, minimum at f=10 , 20 MHz	25 dB	Reference standards	PN-EN 50288-2-2, IEC 61156-6, ISO/IEC 11801, TIA/EIA 568 A
Return loss, minimum at f=20 , 155 MHz	25-8.6lg(f/20) dB	The cable meets requirements of the low voltage direction 2014/35/EU	
Minimum shielding attenuation at the frequency f=30 , 100 MHz - minimum	40 dB		

Product No.	Cable type	Number of pairs x conductor diameter	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm <sup>2</sup>	mm	kg/km	kg/km	
0199 017	PKM kat.5e	4 x 2 x 0,34	10.6	55.6	120

TECHNOKABEL SA reserves the right to change specifications without prior notice.