

# COMPUTER NETWORK PROTECTION FOR 6<sup>TH</sup> CATEGORY

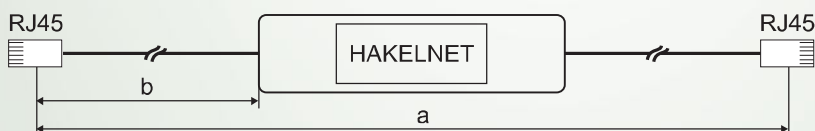
Hakelnet 4/250M 6 cat is designed to protect 5E/6 data and communications lines. All protected lines are equipped with Transient Voltage Suppressor Diode which eliminates common mode and differential mode surge effects during computer networks operation.

Hakelnet 4/250M 6cat consists of a plastic box and patch cords which are terminated with RJ45 connectors. Required length of patch cords (a, b) is to be specified by customer.



Connection of RJ45 pins acc.to EIA/TIA 568, type B

- 1 whiteorange 1 - blue pair
- 2 orange 2 - orange pair
- 3 whitegreen 3 - green pair
- 4 blue 4 - brown pair
- 5 whiteblue
- 6 green
- 7 whitebrown
- 8 brown



Technical data		HAKELNET 4/250M 6cat	HAKELNET 4/250M 6cat/48V
Number of protected pairs		4	4
Nominal voltage	$U_n$	6 V	48 V
Max. continuous operating voltage	$U_c$	7,2	56 V
Nominal current	$I_l$	200 mA	200 mA
Mode of protection		line-line, line-G(PE)	line-line, line-G(PE)
Frequency handling		250 MHz	250 MHz
C2 Nominal discharge current (8/20) line/line	$I_n$	20 A	150 A
C2 Nominal discharge current (8/20) line/G(PE)	$I_n$	20 A	2 kA
C2 Voltage protection level at $I_n$ line/line	$U_p$	-	< 190 V
C2 Voltage protection level at $I_n$ line/G(PE)	$U_p$	-	< 600 V
C3 Voltage protection level at $I_n$ line/line at 1 kV/ $\mu$ s	$U_p$	< 15 V	< 145 V
C3 Voltage protection level at $I_n$ line/G(PE) at 1 kV/ $\mu$ s	$U_p$	< 15 V	< 500 V
Insertion loss for 250 MHz		< 3 dB	< 2 dB
Parasitic capacitance line/line	c	max. 5 pF	max. 160 pF
Parasitic capacitance line-G(PE)	c	max. 5 pF	max. 260 pF
Operating temperature range	$\theta$	- 20 + + 60 °C	- 20 + + 60 °C
Mounting on		DIN rail 35 mm	DIN rail 35 mm
Input/Output, pinning		RJ45/RJ45, 1/2, 3/6, 4/5, 7/8	RJ45/RJ45, 1/2, 3/6, 4/5, 7/8
Length of patch cords		acc. to customer's specification, a+b < 3 m	acc. to customer's specification, a+b < 3 m
Grounding method		trough DIN rail 35 mm by special metal clip on the back side of box	
Housing material		POLYAMID PA6	POLYAMID PA6
Colour		grey	grey
Category tested acc. to		IEC 61643-21	IEC 61643-21
Approvals and certifications		Cat. 6, ISO/IEC 11801	Cat. 6, ISO/IEC 11801
Article number		45 034	45 037

