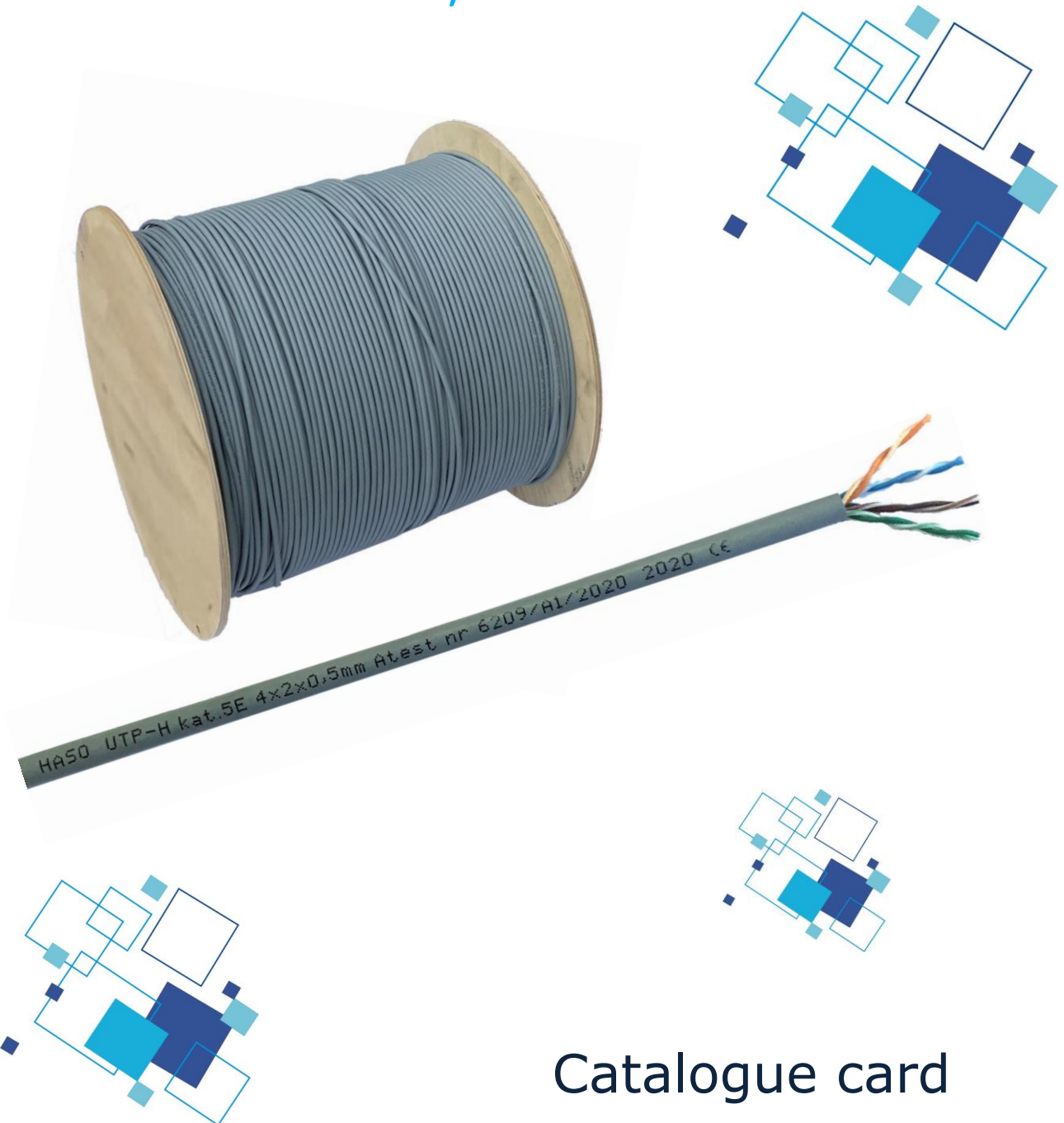


UTP-H cable for underground use

UTP-H kat.5e 4x2x0,5mm



Catalogue card



CHARACTERISTIC

Cable type UTP-H kat.5e 4x2x05mm is designed to work in multimedia computer networks (high definition data, voice and television transmission - HDTV), in industrial networks, as well as in computer networks with increased binary bitrates with simultaneous bidirectional transmission in all symmetrical paths of a 4-pair cable (full duplex, Gigabit Ethernet technique).

CABLE STRUCTURE

- Annealed copper single wire conductors of diameter 0.51 mm, 24 AWG
- Core insulation made of polyethylene (PE)
- Insulated conductors twisted into pairs
- Pairs laid-up into a cable core
- Gray outer coating made of halogen-free (HFFR) material

FEATURES

- Can be used in underground mine plants
- Thanks to the halogen-free coating, the cables are used in infrastructures with increased fire protection requirements, where greater safety of people and property is needed
- They do not spread flame, have low smoke emission and the emitted gases are not corrosive
- Perfect for indoors installation

BASIC TECHNICAL DATA

Cable UTP-H kat.5e 4x2x05mm	
Characteristic impedance	100 ± 15 Ω
Mutual capacitance of any pair at 1 kHz, approximate	50 nF/km
Capacitance unbalance of any pair to ground at 1 kHz, max.	1600 pF/km
Insulation resistance, minimum	5000 MΩ·km
Operating voltage	150 V
Voltage test	700 V sk
Velocity of propagation	65 %
Return loss at f=4,10MHz - min.	20+5lg(f) dB
Return loss at f=10,20 MHz - min.	25 dB
Return loss at f=20,155 MHz - min.	25-7 lg(f/20) dB
DC loop resistance at 20°C	188 Ω/km
Resistance unbalance of any pair of conductors, max.	2 %
Phase delay dispersion of symmetrical circuits	45 ns/100 m
Phase delay T	534+36/f ns/100 m
pH, about	6,8
Conductivity, approx	0,4 μS/mm
Operating temperature range [°C]	from - 20 to + 70°C
Min. bending radius	4 x cable diameter
Technical opinion no	6209/2020
Certification	Atest no 6209/A1/2020