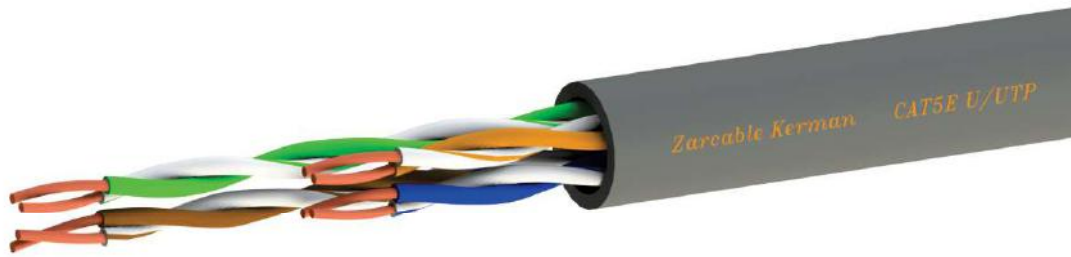


# Cat 5e U/UTP

CU/HDPE/PVC(HFFR)



LAN cable with 4 pairs, category 5e, without screen

## Construction

Conductor:	copper (bare, single wired/solid), diameter 0,51mm, AWG24
Insulation:	polyethylene (PE), external diameter 0.9 mm, per two conductors twisted in pairs
Sheath	PVC; halogen-free (LSHF, LSOH, FRNC); resistant to flame propagation acc. to IEC 60332-3 (LSHF-FR, LSFROH, FRNC-C)
sheath Color	Grey Ral 7043
external diameter	4.9-5.1 mm
<b>Conductor colour marking:</b>	
1. pair:	blue / white
2. pair:	orange / white
3. pair:	green / white
4. pair:	brown / white

## APPLICATION

Cable applied in structured local networks of class D for high speed data and voice transmission, at primary, secondary (vertical) and tertiary (horizontal) level. Standardized for application up to 100 MHz

Length of this cable in Ethernet networks is restricted at max. 100 m (ordinarily installed cable max. 90 m, with connecting cables up to 5 m at both ends). Can be laid in cable canals.

## Technical data

Temperature range:	
During installation :	-5 °C up to +50 °C
maximum operation temperature :	+60 °C
Nominal voltage:	250V
Test voltage:	1200V
Minimal inner bending radius:	8 X D
DC Resistance( $\Omega$ /100m):	$\leq 9.5$
Capacitance(nf/100m)	$\leq 5.6$
Capacitance Unbalance	2%
Propagation Velocity	67-69%
Behavior in fire:	IEC 60332-1
Maximal tensile strength:	Max 100N
Cable Weight(approx.)	
	PVC: 35 kg/km
	LSHF: 36 kg/km

## DESIGN STANDARDS

**ISO/IEC 11801**  
**IEC 61156-5**  
**EN 50173**  
**EN 50288-5-1**  
**TIA/EIA-568-B**

*Nominal characteristics of signal transmission (at 20 °C)*

Frequency	Attenuation	NEXT	PS-NEXT	ACR	PS-ACR	ELFEXT	PS-ELFEXT
MHz	dB/100m	dB	dB	dB/100m	dB/100m	dB/100m	dB/100m
1	1,9	71	68	69,1	66,1	68	65
4	3,7	62	59	58,3	55,3	56	53
10	6,0	56	53	50,0	47,0	48	45
16	7,6	53	50	45,4	42,4	44	41
20	8,5	51	48	42,5	39,5	42	39
31,2	10,7	49	46	38,3	35,3	38	35
62,5	15,7	44	41	28,3	25,3	32	29
100	19,8	41	38	21,2	18,2	28	25