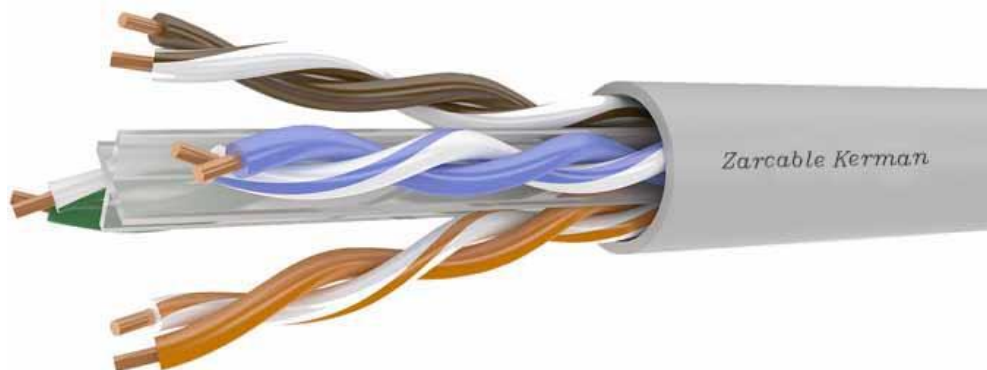


## Cat 6U/UTP

CU/HDPE/PVC(HFFR)



LAN cable with 4 pairs, category 6, with individual Al-foil screen

### Construction

Conductor:	copper (bare, single wired/solid), diameter 0,57mm, AWG23
Insulation:	polyethylene (PE), external diameter 1 mm, per two conductors twisted in pairs
Pairs separator:	polyethylene of cross-shaped cross-section
Sheath	PVC; halogen-free (LSHF, LSOH, FRNC); resistant to flame propagation acc. to IEC 60332-3 (LSHF-FR, LSFROH, FRNC-C)
sheath Color	Orange Ral 2000
external diameter	7.0-7.3 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 E for high speed data and voice transmission, at primary, secondary (vertical) and tertiary (horizontal) level. Standardized for application up to 250 MHz (in certain configurations even up to 400 MHz).

Length of this cable in 1000BASE-T networks is restricted at max. 100 m (ordinarily installed cable max. 90 m, with connecting cables of up to 5 m at both ends).

### Technical data

<b>Temperature range:</b>	
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(Ω/100m):	≤9,5
Capacitance(nf/100m)	≤5,6
Capacitance Unbalance	2%
Propagation Velocity	67-69%
Behavior in fire:	IEC 60332-1
Fire load:	
	PVC: 358 MJ/km
	LSHF: 329 MJ/km
Maximal tensile strength:	Max 100N
Cable Weight(approx.)	
	PVC: 40 kg/km
	LSHF: 42 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	Gušenje	NEXT	PS-NEXT	ACR	PS-ACR	ELFEXT	PS-ELFEXT	Return losses
MHz	dB/100m nominal	dB nominal	dB nominal	dB/100m nominal	dB/100m nominal	dB/100m nominal	dB/100m nominal	dB min.
1	1,9	78	75	76,1	73,1	82	80	20,0
4	3,8	69	66	65,2	62,2	70	68	23,0
10	6,0	63	60	57,0	54,0	62	60	25,0
16	7,6	60	57	52,3	49,3	58	56	25,0
20	8,5	59	56	50,0	47,0	56	54	25,0
31,2	10,7	56	53	45,0	42,0	52	50	23,6
62,5	15,1	51	48	36,0	33,0	46	44	21,5
100	19,1	48	45	28,9	25,9	42	40	20,1
125	21,3	47	44	25,2	22,2	40	38	19,5
155,5	23,8	45	42	21,3	18,3	38	36	18,8
175	25,3	44	41	19,1	16,1	37	35	18,4
200	27,0	44	41	16,5	13,5	36	34	18,0
250	32,0	42	39	10,0	7,0	34	32	17,3