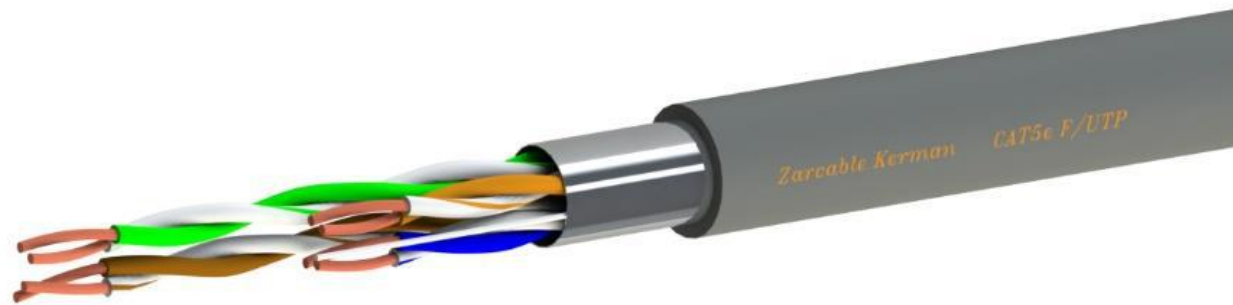


# Cat5e F/UTP

CU/HDPE/OSC/PVC



LAN cable with 4 pairs, category 5, with Overall Al-foil screen

## Construction

Conductor:	copper (bare, single wired/solid), diameter 0,51 mm, AWG24
Insulation:	polyethylene (PE), external diameter 0.9 mm, per two conductors twisted in pairs
Common screen:	aluminum-laminated plastic foil + tinned copper contact conductor of 0,5 mm diameter, AWG26
Sheath	external diameter 5,9 - 6,6 mm
possible designs:	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)

### Conductor colour marking:

1. pair: blue / white with blue line
2. pair: orange / white with orange line
3. pair: green / white with green line
4. pair: brown / white with brown line

## 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 of up to 5 m at both ends). Can be laid in cable canals.

## Technical data

Temperature during installation:	0°C up to +50 °C
Operating temperature.:	-20 °C up to +60 °C
Minimal inner bending radius:	
Fixed installed:	4D (25 mm)
Under load:	8D (50 mm)
Behavior in fire:	IEC 60332-1
Maximal tensile strength:	80 N
Cable Weight(approx.)	
PVC:	36 kg/km
LSHF:	37 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

Frequency	Attenuation	NEXT	PS-NEXT	ACR	PS-ACR	ELFEXT	PS-ELFEXT	Return loss
MHz	dB/100m	dB	dB	dB/100m	dB/100m	dB/100m	dB/100m	dB
1	1,9	71	68	69,1	66,1	68	65	20
4	3,7	62	59	58,3	55,3	56	53	23
10	6,0	56	53	50,0	47,0	48	45	25
16	7,6	53	50	45,4	42,4	44	41	25
20	8,5	51	48	42,5	39,5	42	39	25
31,2	10,7	49	46	38,3	35,3	38	35	24
62,5	15,7	44	41	28,3	25,3	32	29	22
100	19,8	41	38	21,2	18,2	28	25	20