

## Twisted Pair Installation Cable - Category 5e Class D - U/UTP



### Abstract

CAT 5 Class D, U/UTP, Twisted Pair Installation Cable, LSZH-1, AWG 24/1, 100 MHz, grey

### Application areas

Primary (Campus), Secondary (Riser), Tertiary (Horizontally)

IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T

IEEE 802.5: 16 MB; ISDN; FDDI; ATM;

### Norms

ANSI/TIA 568-C; ISO/IEC 11801 2<sup>nd</sup> Ed.;  
EN 50173-1; EN 50288-2-1

### Physical Properties

Conductor	
Insulation	Bare annealed copper, solid AWG 24/1
Total number of insulated conductors	PE (Polyethylene)
Color code	8, twisted in 4 pairs
Individual pair shielding	Blue-white, orange-white, green-white, brown-white
Overall shielding	None
Outer sheath	FRNC/LSZH-1 acc. IEC 60332-1; IEC 60754, IEC 61034, Dca -s2,d2,a1
Overall diameter	4.8 ± 0.30 mm nominal
Outer sheath color	Grey (RAL 7035)

### Mechanical Properties

Tensile loading	150 N max.
Dynamic bending radius	8x AD mm min.
Static bending radius	4x AD mm min.
Shipping- and storage temperature range	-20 °C up to +75 °C
Operating temperature range	-20 °C up to +60 °C
Installations temperature range	0 °C up to +50 °C

### Electrical Properties

Impedance	(100 ± 15) Ω
Capacitance	Nom. 48 pF/m
Capacitance unbalance (pair-ground)	≤ 1500 pF/km
Insulation resistance	≥ 2000MΩ *km
DC loop resistance	110 Ohm/km max.
Coupling attenuation	40 dB
Signal propagation delay	≤ 535 nS/100 m max.
Propagation delay	≤ 45 nS/100 m max.
NVP	65%

### Transmission Properties

Freq. MHz	RL dB	Att. dB	NEXT dB	ACR dB/100 m	ELFEXT dB/100 m	PSNEXT dB/100 m	PSELFEXT dB/100 m
1	17.0	2.03	62.30	60.30	63.75	59.30	60.75
4	18.80	4.04	53.26	49.20	51.71	50.26	48.71
8	19.70	5.76	48.75	43.00	45.69	45.75	42.69
10	20.00	6.46	47.30	40.80	43.75	44.30	40.75
16	20.00	8.24	44.30	36.10	39.67	41.30	36.67
20	20.00	9.26	42.78	33.20	37.73	39.78	34.73
25	19.30	10.41	41.33	30.90	34.79	38.33	32.79
31.25	18.60	11.72	39.87	28.20	31.86	36.87	30.86
62.5	16.50	16.99	35.36	18.40	27.83	32.36	24.83
100	15.10	21.97	32.29	10.30	23.75	29.29	20.75

### Part no.

**DK-1513-VH-305** DIGITUS® installation cable kat. 5e U/UTP, solid copper, AWG 24/1, LSZH-1, grey, 305m  
**DK-1513-VH-5** DIGITUS® installation cable kat. 5e U/UTP, solid copper, AWG 24/1, LSZH-1, grey, 500m

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