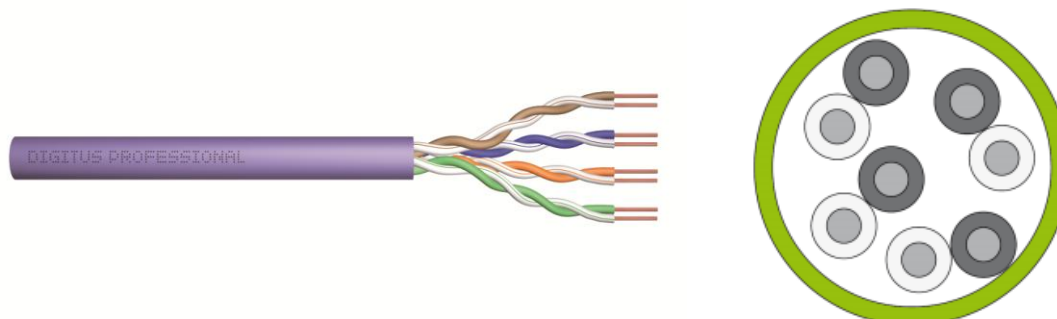


DIGITUS® CAT 6, Class E, U-UTP Twisted Pair Installation Cable



Abstract

DIGITUS® CAT 6, Class E, U-UTP Twisted Pair Installation Cable, PVC, simplex, no separator

Application areas:

Primary (Campus), Secondary (Riser), Tertiary (Horizontally)
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T
IEEE 802.5: 16 MB; ISDN; ATM

Norms:

ANSI/TIA-568-C
ISO/IEC 11801 2nd Ed.
EN 50173; EN 50288-5-1

Physical Description:

Basic conductor	Solid AWG 23/1; bare annealed copper, diameter 0.55 mm nominal
Insulation	HD-PE (High Density Polyethylene)
Total number of insulated conductors	8, twisted in 4 pairs
Color code	Blue-white, orange-white, green-white, brown-white
Individual pair shielding	None
Overall shielding	None
Outer jacket	PVC
Outer jacketed diameter	0.6 mm nominal
Color	Purple (RAL 4005)

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 +60 °C
Operating temperature range	-20 °C up to +75 °C
Installation temperature range	0 °C up to +50 °C
Overall diameter	6.0 mm nominal

Electrical Properties:

Impedance	100±15 ohm @ 1-100 MHz
Capacitance	48 pF/m nominal @ 800 Hz
Capacitance unbalance to ground	1.5 pF/m nominal @ 1 Hz
Insulation resistance	5 GMOhm x km min.
DC loop resistance	147 Ohm/km max. (2% max. resistance unbalance)
Voltage resistance	72 Vdc max.
Coupling attenuation	> 40 dB
Propagation delay	nominal < 535 ns/100 m
Delay skew	nominal ≤ 20 ns/100 m
NVP	69%

Transmission Properties:

FREQ.	ATT	NEXT	PS NEXT	RL	ACR	ELFEXT	PSELFEXT
MHz	dB	dB	dB	dB	dB	dB	dB
10	5.9	59.3	56.3	25	53.4	48.0	45.0
20	8.4	54.8	51.8	25	46.4	42.0	39.0
62.5	15.0	57.4	44.4	21.5	25.2	32.1	29.1
100	19.1	44.3	41.3	20.1	25.2	28.0	25.0
200	27.6	39.3	36.3	18	11.7	22.0	19.0
250	32.85	38.3	35.3	17.3	5.45	20.0	17.0

Product Number Information

DK-1611-V-1-NC	DIGITUS [®] CAT 6 U-UTP installation cable, length 100 m, paper box, AWG23/1, PVC, 250 MHz, simplex, color purple, no separator
DK-1611-V-305-NC	DIGITUS [®] CAT 6 U-UTP installation cable, length 305 m, paper box, AWG23/1, PVC, 250 MHz, simplex, color purple, no separator
DK-1611-V-5-NC	DIGITUS [®] CAT 6 U-UTP installation cable, length 500 m, drum, AWG23/1, PVC, 250 MHz, simplex, color purple (available on request) , no separator