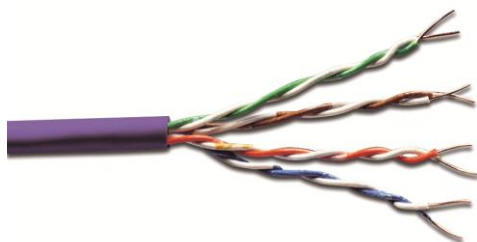




EN: This Datasheet/Document is presented by the manufacturer.

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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

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	6.2 mm nominal

Electrical Properties:

DC loop resistance	< 148.6 Ω /km
Resistance unbalance	< 2%
Insulation resistance	2000M Ω *km
Capacitance	nominal 48 nF/km @ 800 Hz
Capacitance unbalance to ground	1500 pF/km
Characteristic impedance (1-100 MHz)	(100 $\pm$ 15) Ω
Nominal velocity of propagation	0.67%
Propagation delay	nominal < 535 ns/100 m
Delay skew	nominal $\leq$ 45 ns/100 m
Test voltage (DC, 1 min) core to core	1000 V
Voltage resistance	72 Vdc max.
Coupling attenuation	> 40 dB

Transmission Properties:

FREQ.	RL	ATT	NEXT	DELAY	PSNEXT	ELFEXT	PSELFEXT
MHz	> dB	< dB	> dB	< ns	> dB	> dB	> dB
10	25.0	5.9	59.3	545.4	57.3	48.0	45.0
20	25.0	8.4	54.8	542.1	52.8	42.0	39.0
62.5	21.5	15.0	57.4	538.6	45.4	32.1	29.1
100	20.1	19.1	44.3	537.6	42.3	28.0	25.0
200	18.0	27.6	39.3	536.5	37.8	22.0	19.0
250	17.3	32.85	38.3	536.3	36.3	20.0	17.0

Product Number Information

DK-1611-V-1	DIGITUS [®] CAT 6 U-UTP installation cable, length 100 m, paper box, AWG23/1, PVC, simplex, color purple
DK-1611-V-305	DIGITUS [®] CAT 6 U-UTP installation cable, length 305 m, paper box, AWG23/1, PVC, simplex, color purple
DK-1611-V-5	DIGITUS [®] CAT 6 U-UTP installation cable, length 500 m, drum, AWG23/1, PVC, simplex, color purple (available on request)