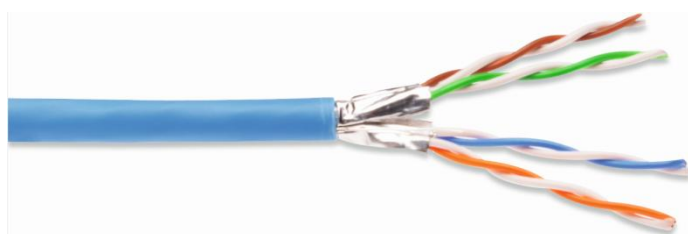


DIGITUS[®] CAT 6_A, Class E_A, U-FTP Twisted Pair Installation Cable



Abstract

DIGITUS[®] CAT 6_A, Class E_A, U-FTP Twisted Pair Installation Cable, LSZH-1, simplex

Application areas:

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

Norms:

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

FRNC (Flame retardancy):

IEC 60332-1; IEC 60754-2; IEC 61034

Physical Description:

Basic conductor	Solid AWG 23/1; bare annealed copper, diameter 0.57 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	Aluminum foil, providing 100 % coverage
Overall shielding	Drain wire
Outer jacket	halogen free (FRNC-B/LSZH-1)
Outer jacketed diameter	0.6 mm nominal
Color	Light blue (RAL 5012)

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	7.0 mm nominal
Flame retardancy	IEC 60332-1
Halogen free & smoke-proof	IEC 60754-2 & IEC 61034
Fire load	650 MJ/km
Weight	54 kg/km

Electrical Properties:

Mean impedance	100±5 Ohm
Propagation velocity	75-77% nominal
Capacitance	40 pF/m nominal @ 1 KHz
Capacitance unbalance to ground	1.6 pF/m max. @ 1 KHz
Insulation resistance	0.5 Ohm x Km min.
DC resistance	72 Ohm/km max. (2% max. resistance unbalance)
DC loop resistance	147 Ohm/km max. (2% max. resistance unbalance)
Voltage resistance	72 Vdc max.
Separating class	"c" acc. to EN 50174-2
NVP	70%

Transmission Properties:

FREQ.	RL	ATT	NEXT	DELAY	PSNEXT	ELFEXT	PSELFEXT
MHz	> dB	< dB	> dB	< ns	> dB	> dB	> dB
1	20.0	2.1	74.3	570.0	72.3	68.0	65.0
4	23.0	3.8	35.3	552.0	63.3	56.0	53.0
10	25.0	5.9	59.3	545.4	57.3	48.0	45.0
16	25.0	7.5	56.2	543.0	54.2	43.9	40.9
20	25.0	8.4	54.8	542.1	52.8	42.0	39.0
31.25	23.6	10.5	51.9	540.4	49.9	38.1	35.1
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	31.1	38.3	536.3	36.3	20.0	17.0
300	16.8	34.3	37.1	536.1	35.1	18.5	15.5
500	15.2	45.3	33.8	535.6	31.8	14.0	11.0

Product Number Information

DK-1623-A-VH-1	DIGITUS [®] CAT 6 _A U-FTP installation cable, length 100 m, paper box, AWG 23/1, LSZH-1, simplex, color light blue (RAL 5012)
DK-1623-A-VH-305	DIGITUS [®] CAT 6 _A U-FTP installation cable, length 305 m, paper box, AWG 23/1, LSZH-1, simplex, color light blue (RAL 5012)
DK-1623-A-VH-5	DIGITUS [®] CAT 6 _A U-FTP installation cable, length 500 m, drum, AWG 23/1, LSZH-1, simplex, color light blue (RAL 5012) - (available on request)