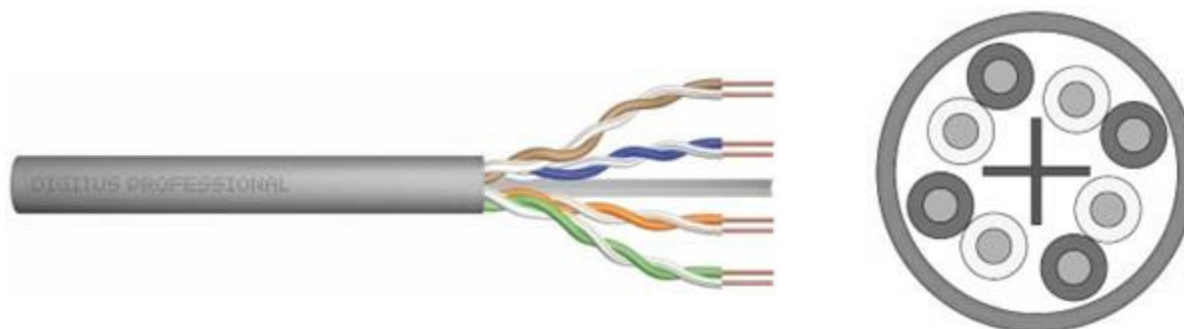


Installation Cable - Category 6 Class E - U/UTP CCA (Copper Clad Aluminum), CPR Class E_{CA}



Abstract

CAT 6 Class E, U/UTP, CCA (Copper Clad Aluminum), Twisted Pair Installation Cable, 250 MHz, CPR Class E_{CA}

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; PoE/PoE+

Standards

ANSI/TIA 568C.2; ISO/IEC 11801

Physical Properties

Conductor	CCA (Copper Clad Aluminum) 35%
AWG	23/1, solid
Insulation	PE (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 sheath	LSZH
Outer sheath color	Grey (RAL 7035)
Outer sheath diameter (nominal)	0,55 mm (E _{CA});

Mechanical Properties

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
Installations temperature range	0 °C up to +50 °C
Overall diameter Simplex (D±0,2 mm)	6,2 mm (E _{CA});



Electrical Properties

Impedance	100 ± 5 Ohm @ 1-250 MHz
Mutual Capacitance	<56(1KHz)
Capacitance unbalance (pair-ground)	<=330 pF/100m
Insulation resistance	5 GOhm 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.

Product Number Information

Item code	Length/Packaging	Reaction to fire acc. to EN 50575	DoP number
DK-1612-VH-1	100 m box, Simplex	E _{CA}	-
DK-1612-VH-305	305 m box, Simplex		
DK-1612-VH-5	500 m drum, Simplex		

Transmission Properties

FREQ.	ATT	NEXT	PS-NEXT	ACR	PS-ACR	EL-FEXT	PS-ELFEXT	RL
MHz	dB	dB	dB	dB	dB	dB	dB	dB
10	5.5	57,8	55,5	53.4	50.4	48	45	21
100	18,6	41,8	39,3	25.2	22.2	28	25	14
200	27,4	36,9	34,3	11.7	8.7	22	19	11
250	31,1	35,3	32,7	5.45	2.45	20	17	10

Frequency	Delay
(MHz)	(ns/90m)
1	521,0
4	504,0
10	498,0
16	496,0
20	495,0
31,25	494,0
62,5	492,0
100	491,0
200	490,0
250	490,0