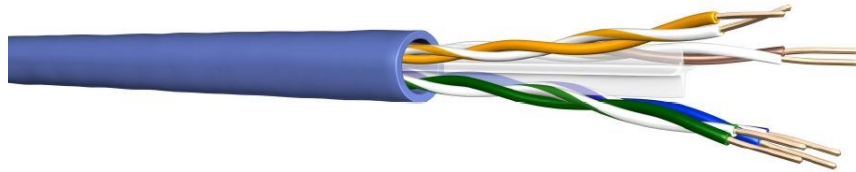


# ADTRONICS® AD-C4C6UU-450Mhz

Ethernet Cable CAT6 U/UTP

4P,LSZH, 450MHz 23 AWG



## Application

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

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

IEEE 802.5 16 MB; ISDN; TPDDI; ATM

Power over Ethernet (PoE) / PoE+

## Standards

IEEE 802.3at : 10Base-T ; 100Base-TX ; 1000Base-T IEEE 802.5 / FDDI / ATM / RNIS

Class E compliant ANSI/TIA/EIA

IEC 61156-5 ed.2 / EN 50288-6-1 / EN 50174 / EN 50173-1

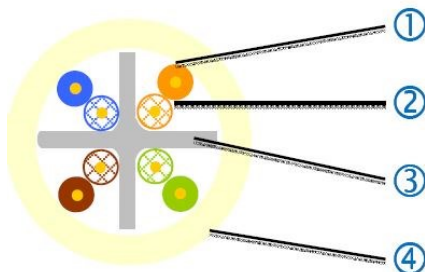
ISO/IEC 11801 2<sup>nd</sup>ed. / EIA/TIA 568-A/B2.10/C2

RoHS 2002/95/EC

## Flame resistance

PVC: IEC 60332-1; Class Eca

LSHF(FRNC): IEC 60332-1; 60754-2; IEC 61034; Class Eca



## Construction

### 1- Conductor

Bare copper wire: Nom. 0,54 (23 AWG)  
Polyethylene, Ø 0.95 mm nom

### 2- Cable Core

2 cores to the pair

### 3- Cable lay up

4 pairs to the core  
non-metallic cross separator (spline)

### 4- Sheath

PVC or LSHF (FRNC, LSOH), blue RAL 5012

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## Mechanical properties

Minimum bending radius	Installation	8 x D
	Installed	4 x D
Temperature range	during operation	-20°C up to + 60°C
	during installation	0°C up to + 50°C

## Electrical properties at 20°C

DC loop resistance	$\leq 176 \Omega / \text{km}$
Resistance unbalance	$\leq 2\%$
Insulation resistance (500 V)	$\geq 5000 \text{ M}\Omega \cdot \text{km}$
Capacitance at 800 Hz	Nom. 48 nF/km
Capacitance unbalance (pair to ground)	$\leq 1500 \text{ pF/km}$
Mean impedance 100 MHz	$100 \pm 5 \Omega$
Nominal velocity of propagation	Approx. 67 %
Propagation delay	Nominal 535 ns/100m
Delay skew	Nominal 20 ns/100m
Test voltage (DC, 1 min) Core/Core	1000 V

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## Electrical data (nominal) acc. to Cat.6 (at 20°C)

Frequency (MHz)		4	10	20	62.5	100	250	300**	450**
Attenuation Max. (dB/100m)	Typical value	3.6	5.7	8.3	14.8	19	31	34	43
	Cat. 6* (max.)	3.8	6	8.5	15.5	19.9	33	-	-
Min. Next	Typical value	71	65	61	53	50	44	43	40
	Cat. 6* (min.)	65.3	59.3	54.8	47.4	44.3	38.3	-	-
PS-Next (dB)	Typical value	68	62	58	50	47	41	40	37
	Cat. 6* (min.)	63.3	57.3	52.8	45.4	42.3	36.3	-	-
ELFEXT (dB/100 m)	Typical value	73	65	59	49	45	37	35	32
	Cat. 6* (min.)	58	50	44	34.1	30	22	-	-
PS ELFEXT (dB/100 m)	Typical value	70	62	56	46	42	34	32	29
	Cat. 6* (min.)	55	47	41	31.1	27	19	-	-
Return Loss (dB)	Typical value	27	27	27	25.8	25	22	22	21
	Cat. 6* (min.)	23	25	25	21.5	20.1	17.3	-	-

## References

References	Description
AD-C4C6UUPVC-450MHz	Cable Cat. 6 U/UTP PVC, 450 MHz AWG 23
AD-C4C6UULSZH-450MHz	Cable Cat. 6 U/UTP LSZH, 450 MHz AWG 23