



## SCS6AU Cat.6A cable U/UTP 4 pairs AWG23/1 PVC Indoor



### Standards of reference and applications

EIA/TIA 568-C.2, ISO/IEC 11801, EN 50288-10, IEC 61156-5, EN 50173-1

Gigabit Ethernet 10GBASE-T, Ethernet 10 BASE-T, Fast Ethernet 100 BASE-T, Fast Ethernet 100 BASE-TX, 155 Mbit ATM, 625 Mbit ATM, 1.2 Gbit ATM

IEEE 802.3af Power over Ethernet (PoE) , IEEE 802.3at Power over Ethernet Plus (PoE+)

### Installation Features

**Store at** -0 to +50 °C

**Install at** -0 to +50 °C

**Operate at** : -10 to +60 °C

**Bend minimum** : 10 times O.D.

**Bend minimum** : 10 times O.D.

**Pull maximum** : 30N

## Design

**Conductor** : solid bare copper AWG23 (0.57mm ± 0.005 mm)

**Insulation** : polyethylene 1.02 ± 0.02 mm

**Pair** : 2 insulated conductors stranded together

**Colour code** : 1.White/blue 2.White/orange 3. White/green 4.White/brown

**Assembling** : no 4 pairs assembled together around a PE central cross

**Wrapping** : N/A

**Screen** : N/A

**Outer jacket** : grey PVC material

**Marking** : APS Finland - ww/yy - U/UTP 4x2x23AWG Category 6A - Extended Frequency 500MHz 100Ohm - ISO/IEC 11801 - /lot + meter

## Environmental properties and Fire Performances

**Flame retardant** : IEC 60332-1-2

## Electrical characteristics

**Resistance of the conductor @ 20°C** : ≤ 9.5 Ω/100m

**Insulation resistance** : ≥ 5000M Ω/km

**Mutual Capacitance** : ≤ 5.6 nF/100m (c/c @ 0.8kHz)

**Capacitance unbalance** : 3300 pF/km (p/p @ 1kHz)

**Average characteristic impedance** : 100 ± 15 Ω @ 100MHz

**Dielectric strength** : DC.1kV.1min no break

Frequency (MHz) :	4	8	10	16	20	25	31.25	62.5	100	200	250	300	400	500
Return Loss (dB)	23	24.5	25	25	25	24.3	23.6	21.5	20.1	18.0	17.3	17.3	17.3	17.3
Attenuation (dB/100m)	3.8	5.3	5.9	7.5	8.4	9.4	10.5	15.0	19.1	27.6	31.1	34.3	40.1	45.3
NEXT (dB)	66.3	61.8	60.3	57.2	55.8	54.3	52.9	48.4	45.3	40.8	39.3	38.1	36.3	34.8
PS NEXT(dB)	63.3	58.8	57.3	54.2	52.8	51.3	49.9	45.4	42.3	37.8	36.3	35.1	33.3	31.8
EL FEXT (dB/100m)	56	49.9	48.0	43.9	42.0	40.0	38.1	32.1	28.0	22.0	20.0	18.5	16.0	14.0
PS ELFEXT (dB/100m)	53.0	46.9	45.0	40.9	39.0	37.0	35.1	29.1	25.0	19.0	17.0	15.5	13.0	11.0

## Ordering and delivery information

Pair count	P/N	O.D [mm]	Weight [kg/km]	Packaging
4 pairs	DCC6AUTP4PV	6.7	48.0	305m / 1000ft box

## Recommended connectivity

**Keystone jack** : KJ6AUTPNT

**Panel** : PPE24SU

**Patchcords** : PCMJ6AU series

**Faceplate** : FP86150S245, FP86171S245

**Every effort has been put so that this document is most reliable and free from errors. However, AP Solutions Oy cannot be considered responsible for any mistake in this document and users should consult AP Solutions Oy for any information needed. AP Solutions Oy reserves the right to make changes to the documents at any time, without prior notice.**