



# SCS6AS Cat.6A cable F/UTP 4 pairs AWG23/1 PE Outdoor



## 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 +70 °C

**Install at** -0 to +50 °C

**Operate at** : -10 to +60 °C

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

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**Pull maximum** : 40N

## Design

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

**Insulation** : polyethylene 1.15 ± 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** : polyester tape

**Screen** : aluminium foil

**Outer jacket** : black PE material

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

## Environmental properties and Fire Performances

**UV resistant** : UL 1581

## Electrical characteristics

**Resistance of the conductor @ 20°C** : ≤ 95 Ω/km

**Mutual Capacitance** : 56 pF/m (cond/cond)

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

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

**Velocity of propagation (NVP) : 70%**

<b>Frequency (MHz) :</b>	<b>4</b>	<b>8</b>	<b>10</b>	<b>16</b>	<b>20</b>	<b>25</b>	<b>31.25</b>	<b>62.5</b>	<b>100</b>	<b>200</b>	<b>250</b>	<b>300</b>	<b>400</b>	<b>500</b>
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
ELFEXT (dB)	56.0	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)	53.0	46.9	45.0	40.9	39.0	37.0	35.1	29.1	25.0	29.0	17.0	15.5	13.0	11.0
Return Loss	23.0	24.5	25.0	25.0	25.0	24.3	23.6	21.5	20.1	18.0	17.3	17.3	17.3	17.3

## Ordering and delivery information

<b>Pair count</b>	<b>P/N</b>	<b>O.D [mm]</b>	<b>Weight [kg/km]</b>	<b>Packaging</b>
4 pairs	DCC6AFTP4PE	7.5	58.0	305m / 1000ft drum

## Recommended connectivity

**Keystone jack** : KJ6ASTPNH / KJ6ASTPNY

**RJ45 plug** : RJ45S6APL231 / RJ45S6ABT231

**Panel** : PPE24SU

**Patchcords** : PCMJ6F series, PCMJ6S series

**Faceplate** : FP86150S245, FP86171S245

## Extended System Warranty

The APS System Warranty assures the compliance of the system performance to the applicable class of cabling for a period of 25 years. The warranty may be applied for by an accredited APS Partner who has designed and/or installed the entire system.

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# SCS6AS Cat.6A cable F/UTP 4 pairs AWG23/1 PVC Indoor



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**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** : polyester tape

**Screen** : aluminium foil

**Outer jacket** : grey PVC material

**Marking** : APS Finland - ww/yy - F/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** : ≤ 95 Ω/km

**Mutual Capacitance** : 56 pF/m (cond/cond)

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

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

**Velocity of propagation (NVP)** : 70%

Frequency (MHz) :	4	8	10	16	20	25	31.25	62.5	100	200	250	300	400	500
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
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## Ordering and delivery information

Pair count	P/N	O.D [mm]	Weight [kg/km]	Packaging
4 pairs	DCC6AFTP4PV	7.5	51.0	305m / 1000ft box

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**Keystone jack** : KJ6ASTPNH / KJ6ASTPNY

**RJ45 plug** : RJ45S6APL231 / RJ45S6ABT231

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**Pair :** 2 insulated conductors stranded together

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

**Screen :** aluminium foil over each single pair

**Assembling :** no 4 screened pairs assembled together

**Wrapping :** polyester tape

**Outer jacket :** grey PVC material

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

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