

## SCS6U Cat.6 cable U/UTP 4 pairs AWG23/1 LSZH Indoor



### Standards of reference and applications

EIA/TIA 568-C.5, ISO/IEC 11801, EN 50288-6-1

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

### 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.

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

**Pull maximum :** 40N

### Design

**Conductor :** solid bare copper AWG23 (0.55mm)

**Insulation** : polyethylene 0.98 ± 0.01 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

**Screen** : N/A

**Outer jacket** : grey LSZH material

**Marking** : APS Finland - ww/yy - U/UTP 4x2x23AWG Category 6 LSZH - Extended Frequency 250MHz 100Ohm - ISO/IEC 11801

- /lot + meter

## Environmental properties and Fire Performances

**Degree of acidity of gases** : IEC 60754-1, IEC 60754-2

**Halogen acid gas** : IEC 60754-1, IEC 60754-2

**Smoke Emission** : IEC 61034-2, EN 50268-2

**Toxicity of evolved gas** : EN 50305 9.2

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

**CPR Class (CE)** : Class Dca

## Electrical characteristics

**Resistance of the conductor @ 20°C** : ≤ 90 Ω/km

**Mutual Capacitance** : 52 pF/m (cond/cond)

**Capacitance unbalance** : 1500 pF/km (p/p @ 1KHz)

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

**Velocity of propagation (NVP)** : 66%

| Frequency (MHz) :     | 1    | 4    | 10   | 16   | 20   | 31,5 | 62,5 | 100  | 155   | 200  | 250  |
|-----------------------|------|------|------|------|------|------|------|------|-------|------|------|
| Attenuation (dB/100m) | 2.0  | 3.8  | 6.0  | 7.6  | 8.5  | 10.8 | 15.5 | 19.9 | 24.70 | 29.1 | 33   |
| NEXT (dB)             | 74.3 | 65.3 | 59.3 | 56.2 | 54.8 | 51.9 | 47.4 | 44.3 | 41.7  | 39.8 | 38.3 |
| PS-NEXT (dB)          | 72.3 | 63.3 | 57.3 | 54.2 | 52.8 | 49.9 | 45.4 | 42.3 | 39.7  | 37.8 | 36.3 |
| ELFEXT (dB)           | 67.8 | 55.8 | 47.8 | 45.9 | 41.8 | 42.0 | 42.0 | 27.8 | 24.3  | 21.8 | 20.4 |
| PS-ELFEXT (dB)        | 64.8 | 52.8 | 44.8 | 43.0 | 38.8 | 35.0 | 29.1 | 25.0 | 21.3  | 19.0 | 17.0 |
| Return Loss           | 20   | 23.0 | 25.0 | 25.0 | 25.0 | 21.5 | 21.5 | 20.1 | 18.9  | 18.0 | 17.3 |

## Ordering and delivery information

| Pair count | P/N          | O.D [mm] | Weight [kg/km] | Packaging         |
|------------|--------------|----------|----------------|-------------------|
| 4 pairs    | W5UX042M0S30 | 6.5      | 36.8           | 305m / 1000ft box |

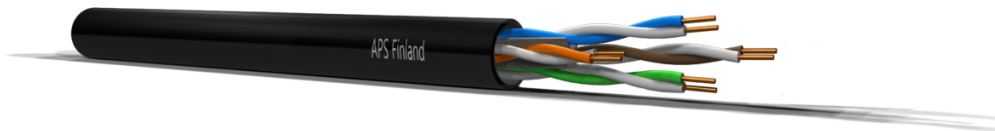
## Recommended connectivity

**Keystone jack** : MJ6UK / MJ6UC

**RJ45 plug** : RJ45U6PL241 / RJ45U6BL241

**Panel** : PPE24SU

**Patchcords** : PCMJ6U\_



## SCS6U Cat.6 cable U/UTP 4 pairs AWG24/1 PE Outdoor



### Standards of reference and applications

EIA/TIA 568-C.5, ISO/IEC 11801, EN 50288-6-1

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

## 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.  
**Bend minimum** : 10 times O.D.  
**Pull maximum** : 40N

## Design

**Conductor** : solid bare copper AWG23 (0.55mm)  
**Insulation** : polyethylene 0.98 ± 0.01 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  
**Screen** : N/A  
**Outer jacket** : black PE material  
**Marking** : APS Finland - ww/yy - U/UTP 4x2x23AWG Category 6 PE Outdoor - Extended Frequency 250MHz 100Ohm - ISO/IEC 11801 - /lot + meter

## Environmental properties and Fire Performances

**UV Resistant** : UL 1581

## Electrical characteristics

**Resistance of the conductor @ 20°C** : ≤ 90 Ω/km  
**Mutual Capacitance** : 52 pF/m (cond/cond)  
**Capacitance unbalance** : 1500 pF/km (p/p @ 1KHz)  
**Average characteristic impedance** : 100 ± 15 Ω @ 100MHz  
**Velocity of propagation (NVP)** : 66%

| Frequency (MHz) :     | 1    | 4    | 10   | 16   | 20   | 31,5 | 62,5 | 100  | 155   | 200  | 250  |
|-----------------------|------|------|------|------|------|------|------|------|-------|------|------|
| Attenuation (dB/100m) | 2.0  | 3.8  | 6.0  | 7.6  | 8.5  | 10.8 | 15.5 | 19.9 | 24.70 | 29.1 | 33   |
| NEXT (dB)             | 74.3 | 65.3 | 59.3 | 56.2 | 54.8 | 51.9 | 47.4 | 44.3 | 41.7  | 39.8 | 38.3 |
| PS-NEXT (dB)          | 72.3 | 63.3 | 57.3 | 54.2 | 52.8 | 49.9 | 45.4 | 42.3 | 39.7  | 37.8 | 36.3 |
| ELFEXT (dB)           | 67.8 | 55.8 | 47.8 | 45.9 | 41.8 | 42.0 | 42.0 | 27.8 | 24.3  | 21.8 | 20.4 |
| PS-ELFEXT (dB)        | 64.8 | 52.8 | 44.8 | 43.0 | 38.8 | 35.0 | 29.1 | 25.0 | 21.3  | 19.0 | 17.0 |

| Frequency (MHz) : | 1  | 4    | 10   | 16   | 20   | 31,5 | 62,5 | 100  | 155  | 200  | 250  |
|-------------------|----|------|------|------|------|------|------|------|------|------|------|
| Return Loss       | 20 | 23.0 | 25.0 | 25.0 | 25.0 | 21.5 | 21.5 | 20.1 | 18.9 | 18.0 | 17.3 |

## Ordering and delivery information

| Pair count | P/N          | O.D [mm] | Weight [kg/km] | Packaging        |
|------------|--------------|----------|----------------|------------------|
| 4 pairs    | W5UX042E0S30 | 6,5      | 38             | 305m/1000ft box  |
| 4 pairs    | W5UX042E0B50 | 6,5      | 38             | 500m/1640ft drum |

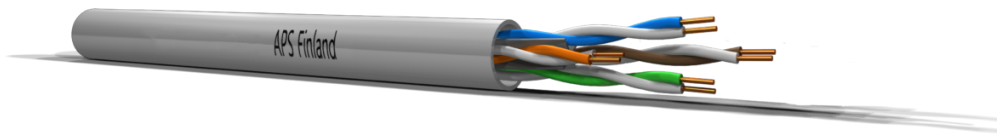
## Recommended connectivity

**Keystone jack** : MJ6UK / MJ6UC

**RJ45 plug** : RJ45U6PL241 / RJ45U6BL241

**Panel** : PPE24SU

**Patchcords** : PCMJ6U\_



## SCS6U Cat.6 cable U/UTP 4 pairs AWG24/1 PVC Indoor



## Standards of reference and applications

EIA/TIA 568-C.5, ISO/IEC 11801, EN 50288-6-1

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

## 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.

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

**Pull maximum** : 40N

## Design

**Conductor** : solid bare copper AWG23 (0.55mm)

**Insulation** : polyethylene 0.98 ± 0.01 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

**Screen** : N/A

**Outer jacket** : grey PVC material

**Marking** : APS Finland - ww/yy - U/UTP 4x2x23AWG Category 6 PVC - Extended Frequency 250MHz 100Ohm - ISO/IEC 11801 - /lot + meter

## Environmental properties and Fire Performances

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

**CPR Class (CE)** : Class Eca

## Electrical characteristics

**Resistance of the conductor @ 20°C** : ≤ 90 Ω/km

**Mutual Capacitance** : 52 pF/m (cond/cond)

**Capacitance unbalance** : 1500 pF/km (p/p @ 1KHz)

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

**Velocity of propagation (NVP)** : 66%

| <b>Frequency (MHz) :</b> | <b>1</b> | <b>4</b> | <b>10</b> | <b>16</b> | <b>20</b> | <b>31,5</b> | <b>62,5</b> | <b>100</b> | <b>155</b> | <b>200</b> | <b>250</b> |
|--------------------------|----------|----------|-----------|-----------|-----------|-------------|-------------|------------|------------|------------|------------|
| Attenuation (dB/100m)    | 2.0      | 3.8      | 6.0       | 7.6       | 8.5       | 10.8        | 15.5        | 19.9       | 24.70      | 29.1       | 33         |
| NEXT (dB)                | 74.3     | 65.3     | 59.3      | 56.2      | 54.8      | 51.9        | 47.4        | 44.3       | 41.7       | 39.8       | 38.3       |
| PS-NEXT (dB)             | 72.3     | 63.3     | 57.3      | 54.2      | 52.8      | 49.9        | 45.4        | 42.3       | 39.7       | 37.8       | 36.3       |
| ELFEXT (dB)              | 67.8     | 55.8     | 47.8      | 45.9      | 41.8      | 42.0        | 42.0        | 27.8       | 24.3       | 21.8       | 20.4       |
| PS-ELFEXT (dB)           | 64.8     | 52.8     | 44.8      | 43.0      | 38.8      | 35.0        | 29.1        | 25.0       | 21.3       | 19.0       | 17.0       |
| Return Loss              | 20       | 23.0     | 25.0      | 25.0      | 25.0      | 21.5        | 21.5        | 20.1       | 18.9       | 18.0       | 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           | W5UX042W0S30 | 6.5             | 36.8                  | 305m / 1000ft box |

## Recommended connectivity

**Keystone jack** : MJ6UK / MJ6UC

**RJ45 plug** : RJ45U6PL241 / RJ45U6BL241

**Panel** : PPE24SU

**Patchcords** : PCMJ6U\_