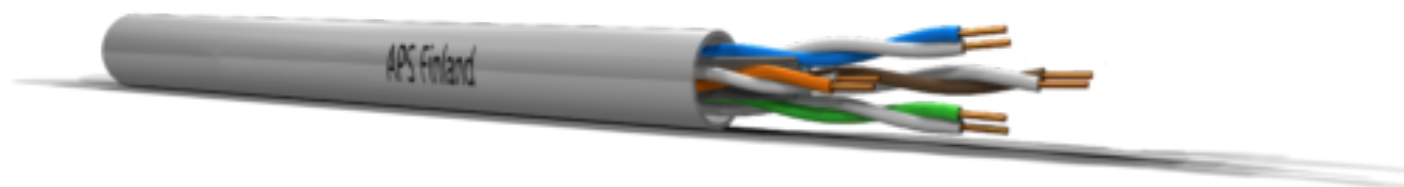# SCS6U Cat.6 cable, U/UTP 4 pairs AWG23/1, LSZH Indoor/Outdoor, UVR, CPR Cca (R1)

Category 6, Unscreened, 4 pairs, LSZH, Indoor/Outdoor, CPR Class Cca

W6UX042M0, Rev.01, Date 2021-02-08

Description

Standards of reference and applications

LAN horizontal cabling (max 90m)

Audio, Video and Camera

EIA/TIA 568-C.2, ISO/IEC 11801, EN50173

Installation Features

Store at: -0 to +50 °C

Install at: -0 to +50 °C. **Bend minimum:** 60 mm.

Operate at: -25 to +60 °C. **Bend minimum:** 75 mm.

Pull maximum: 40N

Design

Conductor: solid bare copper AWG23 (0.55mm)

Insulation: polyethylene Ø 1.00 mm

Pair: 2 insulated conductors stranded together

Central cross: HDPE 4,5×0,5mm (nom.)

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

Outer jacket: grey LSZH material, UV Resistant

Marking: APS Finland – P/N – CATEGORY 6 U/UTP 4 PR AWG 23/1 – LSZH-UVR Cca – 250MHz 100Ohm – ISO/IEC 11801 – lot no – xxx m

Colour code

1. White/blue
2. White/orange
3. White/green
4. White/brown

Environmental properties and Fire Performances

CPR Class: Cca-s1a-d0-a1 (B2ca-S1a,d0,a1)
Declaration of Performance: W6UX042M0-001
Flame retardant: IEC 60332-1
Smoke Emission and Halogen Free: EN61034-2, EN60754-2
RoHS: 2011/65/EU
REACH: EC 1907/2006

Electrical characteristics

Conductor resistance: ≤ 95 Ω/km
Insulation resistance: ≥ 500 MOhm/km
Mutual Capacitance: ≤ 56 pF/m
Capacitance unbalance pair/pair: ≤ 330 pF/100m
Average characteristic impedance: 100 ± 15 Ω @ 100-250MHz
Velocity of propagation (NVP): 69%
Voltage (max): 75V (DC)

Frequency (MHz) :	1	4	8	10	16	20	25	31.25	62,5	100	200	250
Return Loss	20.0	23.0	24.5	25.0	25.0	25.0	24.3	23.6	21.5	20.1	18.0	17.3
Attenuation (dB/100m)	2.2	4.0	5.5	6.2	7.8	8.7	9.7	10.9	15.6	20.0	29.2	33.0
NEXT (dB)	74.3	66.3	61.8	60.3	57.2	55.8	54.3	52.9	48.4	45.3	40.8	39.3
PS-NEXT (dB)	72.3	63.3	58.8	57.3	54.2	52.8	51.3	49.9	45.4	42.3	37.8	36.3
ELFEXT (dB/100m)	67.8	56.0	49.9	48.0	43.9	42.0	40.0	38.1	32.1	28.0	22.0	20.0
PS-ELFEXT (dB/100m)	64.8	53.0	46.9	45.0	40.9	39.0	37.0	35.1	29.1	25.0	19.0	17.0

Ordering and delivery information

Pair count	P/N	O.D. [mm]	Weight [kg/km]	Retail packaging	Wholesale packaging	STK Electrical No.	GTIN
4 pairs	W6UX042M0S30	6.3	36.8	305 m (box) 44x44x23 mm 15 kg	6 100 m (pallet) 120x92x105 cm 320 kg	02 331 02	6410002331028
4 pairs	W6UX042M0B50	6.3	36.8	500 m (drum) 40x30x40 cm 25 kg	9 000 m (pallet) 120x80x110 cm 470 kg	02 331 03	6410002331035

Recommended connectivity

	APS		Kerman		System warranty
Keystone jack (tool type)	-	-	GT6	-	included
Keystone jack (toolless)	-	-	CM6	-	not included
Keystone jack (toolless)	GSCAT6AU	72 058 68	-	72 258 68	included
Patch panel	PPE24SU	72 265 11	KRM24H	72 265 11	included
Field connector RJ45 (toolless)	AKLRJ456U	72 493 26	KRJ45U-U	72 493 26	not included
Connection box (tool type)	AKJ6U	72 493 27	KRM6KJ	72 493 24	not included

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.

Read more.

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