APS®

SCS6U Cat.6 cable U/UTP Dual 2×4 pairs AWG23/1 LSZH Indoor, Dca

Category 6, Unscreened, 2×4 pairs, LSZH, Indoor.

W5UX08TM0B50, Rev.00, Date 2020-09-06

Description

Standards of reference and applications

Indoor LAN horizontal cabling (max 90m)

EIA/TIA 568-C.2, ISO/IEC 11801, EN50173-1 Luokka E, 250MHz 1GbE

Installation Features

Store at: -0 to +50 °C

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

Operate at: -20 to +60 °C. **Bend minimum:** 75 mm.

Pull maximum: 40N

Design

Conductor: solid bare copper AWG23 (0.55 mm nom.)

Insulation: polyethylene Ø 1.00 mm (nom.)

Pair: 2 insulated conductors stranded together

Central cross: HDPE 5.0×0.45mm (nom.)

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

Outer jacket: LSZH 14,1×6.8 mm (nom.)

Marking: APS Finland – W5UX08TM0B50 – CAT.6 U/UTP 2 x 4 PR AWG 23/1 – LSZH Dca – lot no. – w/y – xxx m

Colour code

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

Environmental properties and Fire Performances

CPR Class: Dca-s2-d2-a1

Declaration of Performance: W5UX08TM0B50-001

Flame retardant: IEC 60332-1-2

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 @ 1-250MHz

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
2x4 pairs	W5UX08TM0B50	14.1×6.8 ±0.5 mm	36.8	500 m (drum) 500x200x300 mm 41.0 kg	6 000 m (pallet) 100x100x112 cm 512 kg	02 103 18	6410002331011

Recommended connectivity

	APS		Kerman		System warranty
Keystone jack (tool type)	-	-	GT6	72 093 16	included
Keystone jack (toolless)	-	-	CM6	72 094 39	not included
Keystone jack (toolless)	GSCAT6AU	72 058 68	-	-	included
Patch panel	PPE24SU	72 265 11	KRM24H	72 094 07	included
Field connector RJ45 (toolless)	AKLRJ456U	00 000 000	KRJ45U-U	72 477 00	not included
Connection box (tool type)	AKJ6U	00 000 000	KRM6KJ	72 473 16	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.