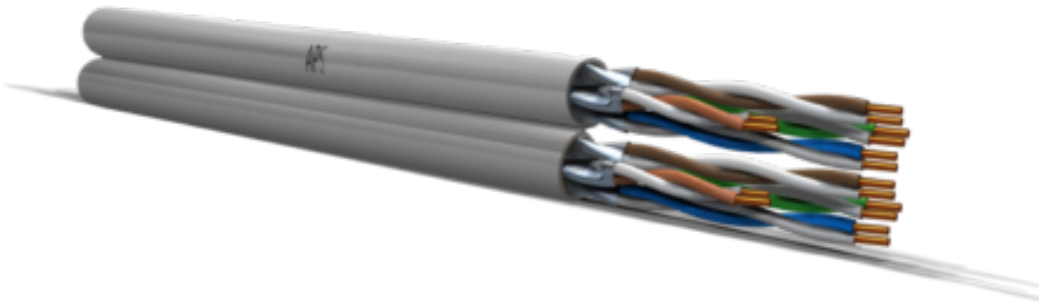


SCS6AS Cat.6A cable U/FTP 2x4 pairs AWG23/1 LSZH Indoor (Dca)

Category 6A, U/FTP Screened, 2x4 pairs, DUAL TWIN design, LSZH, SCS6AS, Indoor.

DCC6AFTP8PH, Rev.01, Date 2023-11-30

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Standards of reference and applications

LAN Horizontal Wiring

IEEE 802.3 : Ethernet 10Base-T, Fast Ethernet 100Base-T, Gigabit Ethernet 1000Base-T, 10GBase-T

IEEE 802.5 : ISDN, FDDI, ATM, Cable sharing

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

EN 50288-5-1, EN 50288-10-1, EN 50173, EN 50174-2, ISO/IEC 11801 2., IEC 61156-5, TIA/EIA-568-B.2-10,

UL Subject 444

Installation Features

Store at -0 to +50 °C

Install at -0 to +50 °C

Operate at : -20 to +60 °C

Bend minimum during installation: 53 mm

Bend minimum fixed: 26 mm

Pull maximum : 100 N

Fire load: 0.160 kWh/m

Design

Conductor : solid bare copper AWG23 0.565 mm (+0.008/-0.01 mm)
Insulation : polyethylene 1.32 ± 0.02 mm
Pair : 2 insulated conductors stranded together
Assembling : no 4 pairs assembled together around a PE central cross
Wrapping : polyester tape
Screen : aluminium foil
Outer jacket : grey LSZH material
Marking : APS Finland – ww/yy U/FTP 2x(4x2x23AWG) LSZH Category 6A Extended Frequency 500 MHz 100Ohm – ISO/IEC 11801 – meter marking.

Colour code

- 1. Blue, White/blue
- 2. Orange, White/orange
- 3. Green, White/green
- 4. Brown, White/brown

Environmental properties and Fire Performances

CPR Class : Dca-s2-d2-a2
Declaration of Performance : DCC6AFTP8PH-001
Degree of acidity of gases : IEC 60754-1/2
Halogen acid gas : IEC 60754-1/2 (Halogen acid gas emission ≤ 0.5 %)
Smoke Emission : IEC 61034-2, EN 50268-2 (Transmittance) ≥ 60 %
Toxicity of evolved gas : EN 50305 9.2
Flame retardant : IEC 60332-1-2
Fire retardant : IEC 60332-3-24 Cat.C
RoHS : 2011/95/EU

Electrical characteristics

Resistance of the conductor @ 20°C : ≤ 73.2 Ω/km
Insulation resistance: ≥ 5 GOhm/km @ +20°C
Mutual Capacitance : 56 pF/m (cond/cond)
Capacitance unbalance pair/pair : 3300 pF/km (p/p @ 1 KHz)
Average characteristic impedance :
100 ± 15 Ω @ 1.0-100.0MHz
100 ± 22 Ω @ 100.0-250.0MHz
100 ± 25 Ω @ 250.0-500.0MHz
Delay skew: ≤ 45 ns/100 m @ 1.0-500.0 MHz
Velocity of propagation (NVP) : 74 %

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	23.7	27.6	31.1	34.3	45.3
NEXT (dB)	65.3	60.8	59.3	56.2	54.8	53.3	51.9	47.4	44.3	41.7	39.8	38.3	37.1	33.8
PS-NEXT (dB)	63.3	58.8	57.3	54.2	52.8	51.3	49.9	45.4	42.3	39.7	37.8	36.3	35.1	31.8

ELFEXT (dB)	55.8	49.7	47.8	43.7	41.8	39.8	37.9	31.9	27.8	24.3	21.8	19.8	18.3	13.8
PS-ELFEXT (dB)	52.8	46.7	44.8	40.7	38.8	36.8	34.9	28.9	24.8	21.3	18.8	16.8	15.3	10.8
Return Loss	23.0	24.5	25.0	25.0	25.0	24.3	23.6	21.5	20.1	18.9	18.0	17.3	16.8	15.2
SKEW (ns/100mm)	45	45	45	45	45	45	45	45	45	45	45	45	45	45
Delay (ns/100m)	552.0	546.7	545.4	543.0	542.0	541.2	540.4	538.6	537.6	536.9	536.5	536.3	536.1	535.6

Ordering and delivery information

Pair count	P/N	O.D [mm]	Weight [kg/km]	Packaging	Electrical number	GTIN
2x4 pairs	DCC6AFTP8PH	7.3 x 15,2 (nominal)	102.0	500m	02 078 00	6410002078008

Recommended connectivity

	APS		Kerman		System warranty
Keystone jack (toolless)	GSCAT6AL-S	72 058 74	XG6S	72 094 35	included
Keystone jack (toolless)	GSCAT6AL-S24	72 058 75			included
Keystone jack (toolless)	GSCAT6AS22F	72 493 35			included
Keystone jack (toolless)	GSCAT6AS22D	72 493 36			included
Keystone jack (tool type)	-	-	XA	72 093 83	included
Patch panel	PPE24SU	72 265 11	RST24	72 474 22	included
Field connector	AKLRJ456AS	72 493 25	KRJ45U	72 093 79	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.](#)