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CATEGORY 6A SCREENED CABLING SYSTEM

Tele & Data
Connectivity Solutions for Telecommunication & Data Networks

SCS6AS Cat.6A cable F/FTP 4 pairs AWG23/1 FRNC Indoor (Dca)

Category 6A, F/FTP Screened, 4 pairs, FRNC Dca, Indoor.

DCC6ASTP4PH, Rev.01, Date 2020-12-19



Description



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, **Bending radius:** 8 x Diameter

Operate at : -20 to +60 °C, **Bending radius:** 4 x Diameter

Pull maximum: 100 N

Fire load: 0.160 kWh/m

Design

Conductor: solid bare copper AWG23/1

Insulation : SFS-PE 1.32 ± 0.02 mm

Pair shielding: plastic laminated aluminium foil

Outer jacket: halogen free compound, color light grey, RAL7032, diameter 7,4 ± 0,2 mm

Marking : APS – U/FTP 4x2x23AWG F/FTP Category 6A Extended Frequency 500 MHz 100Ohm – ISO/IEC 11801 – meter marking – ww/yy

Colour code (IEC 708-1)

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

Environmental properties and Fire Performances

CPR Class : Dca-s2-d2-a2
Declaration of Performance: DCC6ASTP4PH-001
Degree of acidity of gases: IEC 60754-1/2
Halogen acid gas: IEC 60754-1/2
Smoke Emission : IEC 61034-2, EN 50268-2
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 GΩhm/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

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Ordering and delivery information

Pair count	P/N	O.D [mm]	Retail Packaging	Wholesale Packaging	Electrical number	GTIN
4 pairs	DCC6ASTP4PH	7.4±0.2	500 m (drum) 40x40x42 cm 25.5 kg	5 000 m (pallet) 120x80x120 cm 289.0 kg	02 103 01	6410002103014

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Recommended connectivity

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

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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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