

APS[®]

SCS6AO Cat.6A Armored cable U/FTP 4 pairs AWG23/1 PVC/PE, Fca, Outdoor

Category 6A, individually screened, 4 pairs, PVC/PE, Fca, Outdoor.

W5UF0429EB50, Rev.01/AP, Date 2020-09-23

W5UF0429EB50, Rev.02/AP, Date 2024-06-07



Standards of reference and applications

Outdoor LAN Horizontal Wiring

10 Base-T Ethernet, 100 Base-T Ethernet, 1000 Base-T Ethernet, 10G Base-T Ethernet

UL Subject 444, EIA/TIA568.2 & ISO/IEC 11801

Installation Features

Store at: -0 to +50 °C

Install at: -0 to +50 °C. **Bend minimum:** 180 mm.

Operate at: -20 to +60 °C. **Bend minimum:** 240 mm.

Pull maximum: 40N

Design

Conductor: solid bare copper AWG23 (0.57mm)

Insulation: foam polyethylene Ø 1.45 ± 0.05 mm

Pair: 2 insulated conductors stranded together

Pair shield : Aluminium foil

Inner jacket: PVC O.D. 7.6 ± 0.2 mm

Armour: corrugated steel tube, thickness 0.15 mm

Outer jacket: LDPE O.D. 12.5 ± 0.5 mm

Marking: APS Finland – W5UF0429EB50 – Category 6A U/FTP 4 PR AWG 23/1 – PE ARMoured Fca – lot no – WW/YY – xxx

m

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: Fca

Flame retardant: IEC 60332-1-2

RoHS: 2011/65/EU

REACH: EC 1907/2006

Electrical characteristics

Conductor resistance: $\leq 73.2 \Omega/\text{km}$

Capacitance unbalance pair/pair: $\leq 330 \text{ pF}/100\text{m}$

Average characteristic impedance:

$100 \pm 15 \Omega$ @ 1-100 MHz

$100 \pm 22 \Omega$ @ 100-250 MHz

Delay skew : 45 ns/100 m @ 1-500 MHz

Velocity of propagation (NVP): 66%

Frequency (MHz)	4	8	10	16	20	25	31,25	62,5	100	250	300	400	500
Return loss (dB)	23,0	24,5	25,0	25,0	25,0	24,3	23,6	21,5	20,1	17,3	16,8	15,9	15,2
Attenuation (dB/100m)	3,8	5,3	6,0	7,6	8,5	9,5	10,7	15,4	19,8	32,8	34,3	40,1	45,3
NEXT (dB)	65,3	60,8	59,3	56,2	54,8	53,3	51,9	47,4	44,3	38,3	37,1	35,3	33,8
PS NEXT (dB)	63,3	58,8	57,3	54,2	52,8	51,3	49,9	45,4	42,3	36,3	35,1	33,3	31,8
EL FEXT (dB/100m)	55,8	49,7	47,8	43,7	41,8	39,8	37,9	31,9	27,8	19,8	18,3	15,8	13,8
PS ELFEXT (dB/100m)	52,8	46,7	44,8	40,7	38,8	36,8	34,9	28,9	24,8	16,8	15,3	12,8	10,8

Ordering and delivery information

Pair count	P/N	O.D. [mm]	Weight [kg/km]	Retail packaging	Wholesale packaging	Electrical No.	GTIN
4 pairs	W5UF0429EB50	12.60 (± 0.2)		500 m (drum) 600x200x480 mm 80 kg	4 000 m (pallet) 120x120x114 cm 660 kg	02 078 07	6410002078077