

SCS60 Cat.6 Armored cable U/FTP 4 pairs AWG23/1 PVC/PE, Fca, Outdoor

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

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



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Description



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 \varnothing 1.45 \pm 0.05 mm

Pair: 2 insulated conductors stranded together

Pair shield : Aluminium foil

Inner jacket: PVC O.D. 7.6 \pm 0.2 mm

Armour: corrugated steel tube, thickness 0.15 mm

Outer jacket: LDPE O.D. 12.5 \pm 0.5 mm

Marking: APS Finland – W5UF0429EB50 – Category 6 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 Ω /km

Capacitance unbalance pair/pair: \leq 330 pF/100m

Average characteristic impedance:

100 \pm 15 Ω @ 1-100 MHz

100 \pm 22 Ω @ 100-250 MHz

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

Velocity of propagation (NVP): 66%

Frequency (MHz) :	1	4	8	10	16	20	25	31,25	62,5	100	150	200	250
Return loss (dB)	20,0	23,0	24,5	25,0	25,0	25,0	24,3	23,6	21,5	20,1	18,9	18,0	17,3
Attenuation (dB/100m)	2,0	3,8	5,3	6,0	7,6	8,5	9,5	10,7	15,4	19,8	24,7	29,0	32,8
NEXT (dB)	74,3	65,3	60,8	59,3	56,2	54,8	53,3	51,9	47,4	44,3	41,7	39,8	38,3
SKEW (dB)	72,3	61,5	55,4	53,3	48,7	46,3	43,8	41,2	32,0	24,5	16,9	10,8	5,5

Frequency (MHz) :	1	4	8	10	16	20	25	31,25	62,5	100	150	200	250
PSNEXT (dB)	72,3	63,3	58,8	57,3	54,2	52,8	51,3	49,9	45,4	42,3	39,7	37,8	36,3
ELNEXT (dB/100m)	67,8	55,8	49,7	47,8	43,7	41,8	39,8	37,9	31,9	27,8	24,3	21,8	19,8
PSELFEXT (dB/100m)	64,8	52,8	46,7	44,8	40,7	38,8	36,8	34,9	28,9	24,8	21,3	18,8	16,8
Delay (ns/100m)	570,0	552,0	546,7	545,4	543,0	542,0	541,2	540,4	538,6	537,6	536,9	536,5	536,3

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

Recommended connectivity

	APS		Kerman		System warranty
Keystone jack (toolless)	GSCAT6AL-S	72 058 74	XG6S	72 094 35	not included
Keystone jack (tool type)	-	-	XA	72 093 83	not included
Patch panel	PPE24SU	72 265 11	RST24	72 474 22	not included
Field connector	AKLRJ456AS	72 493 25	KRJ45U	72 093 79	not included

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