



SCS6 Cat.6 cable U/UTP 4 pairs AWG23/1, PE-ALU-PE, Fca, Direct Burial



Standards of reference and applications

Outdoor LAN horizontal cabling (max 90m)

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

IEEE 802.5: ISDN, FDDI, ATM, Cable sharing

IEEE 802.3at: PoE, PoE+

EN 50288-6-1, EN 50173, EN 50174-2, ISO/IEC 11801 2., IEC 61156-5, TIA/EIA 568-B-2-1

Installation Features

Store at: -0 to +50 °C

Install at: -15 to +60 °C. **Bending radius:** 8 x Diameter.

Operate at: -40 to +70 °C. **Bending radius:** 4 x Diameter.

Tractive force: 280 N (max.)

Fire load: 0,315 kWh/m

Design

Conductor: solid bare copper AWG23 (0.99 ± 0.02 mm)

Insulation: polyethylene Ø 1.00 mm

Pair: 2 insulated conductors stranded together

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

Core filling: dry

Inner jacket: PE material

Moisture barrier: welded aluminium tape

Outer jacket: PE material, O.D. 9.6 ± 0.3 mm (nom.)

Marking: APS – W5UX042DELEB50 – CAT.6 U/UTP 4 PR AWG 23/1 – PE-ALU-PE – Lot no. – WW/YY – xxx m

Colour code

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

Environmental properties and Fire Performances

CPR Class: Fca

RoHS: 2011/65/EU

Electrical characteristics

Loop resistance: 180 Ω/km (max.)

Insulation resistance: ≥ 5 GΩ x km @+20°C

Operating capacity: 50 nF/km (nom.)

Characteristic Impedance: 100 ± 5 Ω @100MHz**Test voltage:** 700V / AC**Velocity of propagation (NVP):** 0.67c**Signal Term:** 510 ns/100m (max.)**Running time difference:** < 20 ns/100m**Coupling attenuation:** > 45 dB, Type 3**Separating class:** B

Frequency (MHz) :	1	4	10	16	20	31.25	62.5	100	155	200	300	350
Attenuation (dB/100m)	1,8	3,5	5,6	7,0	7,9	10,4	13,8	18,2	22,5	26,0	32,5	35,2
NEXT (dB)	87	76	72	70	68	66	65	63	60	57	55	54
PSANEXT (dB)	85	72	66	63	60	56	51	45	37	61	23	19
ACR (dB/100m)	85	72	63	60	58	54	51	43	40	38	36	34
ELFEXT (dB/100m)	25	28	30	30	30	30	30	30	30	29	28	27
RL (dB)	20.0	23.0	24.5	25.0	25.0	25.0	24.3	23.6	21.5	20.1	18.0	17.3

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Ordering and delivery information

Pair count	P/N	O.D. [mm]	Weight [kg/km]	Retail packaging	Wholesale packaging	STK Electrical No.	GTIN
4 pairs	W5UX042DELEB50	9.6±0.3	78	500 m (drum) 50x50x40 cm 41 kg	? m (pallet) ?x?x? cm ? kg	02 331 15	6410002331158

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Recommended connectivity

	APS		Kerman		System warranty
Keystone jack (tool type)	-	-	GT624	72 477 03	Not included
Keystone jack (tool type)	-	-	CM624	72 477 05	Not included
Keystone jack (tool type)	-	-	GT6	72 093 16	Not included
Keystone jack (toolless)	GSCAT6AU	72 058 68	CM6	72 094 39	Not included
Keystone jack (toolless)	GSCAT6AU24	72 058 77	-	-	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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