



Cat.6A S/FTP

<500 MHz> 23/1awg LSZH Cca

Application

Data cable for analogue and digital signal transmission in the frequency range up to 500 MHz. It is designed for primary (campus), secondary (riser) and tertiary (horizontal) wiring. Suitable for applications up to class EA (500 MHz). Approved for usage acc. to euroclass classification Cca.

Usage:

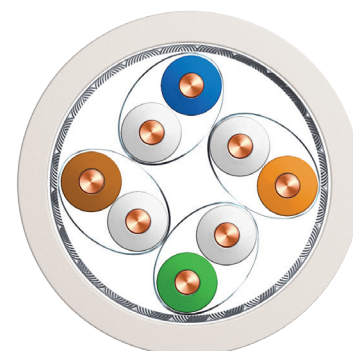
IEEE 802.3 : Ethernet 10Base-T ; Fast Ethernet 100Base-T ; Gigabit Ethernet 1000Base-T ; 10GBase-T
IEEE 802.5 : ISDN ; FDDI ; ATM ; Cable sharing IEEE 802.3at : PoE / PoE+ suitable

Cable Design

Conductor	copper, solid, bare, AWG 23/1
Insulation	SFS-PE, Ø 1,34 ± 0,05 mm
Twisting	2 cores to the pair
Pair Identification	wh-bu, wh-or, wh-gn, wh-bn (IEC 708-1)
Pair Screen	Plastic-Laminated Aluminium foil
Screen	Tinned copper wire braid
Sheath	LSZH : Ø 7,30 mm approx.
Sheath Colour	Ivory RAL 1015 Black RAL 9005

Standards

Industrial Standards	EN 50288-5-1 ; EN 50288-10-1 ; IEC 61156-5 ; EN 50173 ; ISO/IEC 11801 2. edition
Fire Behaviour	EN 60332-1-2 ; EN 60332-3-24 ; EN 50399 ; EN 50575 EN 61034 ; EN 50267 ; IEC 60754-2 ; IEC 61034, EN 13501-6 class Cca s1,d2,a1
Chemical Properties	RoHS 2011/65/EU ; IEC 60811-2-1 (IRM 902, 4h at 70°C)





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Thermal & Mechanical Characteristics

Temperature Range Stationary	-20°C to +60°C
Temperature Range during Installation	0°C to +50°C
Max. bending radius installed	4 x outer diameter
Max. bending radius moved	8 x outer diameter
Maximum traction	95/190N

Electrical Characteristics

loop resistance max.	max. 160 Ω / km
Insulation resistance min.	min. 5 GΩ x km at +20°C
Operating capacity	nom. 45 nF / km
Impedance	100 Ω ± 5 Ω
Test voltage	700 V / AC
Nominal voltage U0/U	125 V
NVP	ca. 0,79 c
Signal delay	max. 425 ns/100m
Delay skew	< 15 ns/100m
Coupling attenuation	> 75 dB, Type 1B
Coupling resistance	< 10 mΩ/m at 10MHz, Grade 1
Separation class	C



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Electrical Characteristics

Frequency (MHz)	Attenuation (dB/100m) nom.	NEXT (dB) nom.	ACR (dB/100m) nom.	EL-FEXT (dB/100m) nom.	RL (dB) nom.
1	1,9	105	103	95	25
4	3,4	105	102	93	28
10	5,5	104	98	92	30
16	6,9	104	97	90	30
20	7,7	103	95	89	30
31,25	9,7	103	93	85	30
62,50	14	100	86	81	30
100	17,6	98	80	76	30
155	23	96	73	72	30
200	25,3	94	69	70	29
300	31,2	91	60	67	27
400	36,3	89	53	63	26
500	40,4	87	47	60	24

Specification

Part Number	Type
7279C	Cat6.A S/FTP 4x2xAWG23/1 <500 MHz> LSZH CPR Cca s1,d2,a1. With IVORY sheath.
7297-01	Cat6.A S/FTP 4x2xAWG23/1 <500 MHz> LSZH CPR Cca s1,d2,a1. With BLACK sheath.

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