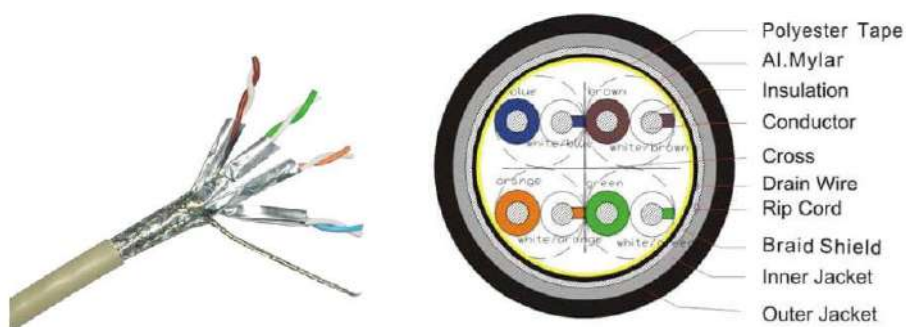




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**PROLINK S/FTP CAT.6A 650 MHZ
PL-C6ASF-LSZH-W**



Description Cable	ProLink CAT6A S/FTP CABLE, 4 PAIR 23 AWG , LSZH , White , 305 m length Reel in a box
Cable Reference	PROLINK Position CAT.6A , S/FTP (Shielded & Foil twisted pair)
Cable construction	Conductor Bare solid copper wire AWG23 ($\geq \varnothing 0.56$ mm)
	Insulation Polyethylene $\leq \varnothing 1.35$ mm Nominal
	Twisting 2 cores to the pair.
	Cable lay up 4 pairs to the core
	Cable core lying Waterproof compound to prevent moisture migration and water protection.
	Sheath White, LSZH
Application	Primary (Campus), Secondary (Riser), Tertiary (Horizontal) IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; IEEE 802.5 16 MB; ISDN; TPDDI; ATM IEEE 802.3af-2002: POE; IEEE 802.3at: POE+
Standards	IISO/IEC 11801 2nd ed.; EN 50173-1 IEC 61156-5 2nd ed.; EN 50288-10-1
Fire rating	LSZH IEC 60332-1; IEC 60754-2; IEC 61034
Technical Data	<u>Cable designation</u> Industry S/FTP Cat.6A 650MHz 4PxAWG23
	<u>Packaging</u> Drum 305 m
	<u>Outer diameter</u> Nominal 7.2 mm
	<u>Weight</u> 20 kg / km
	<u>Thermal load</u> 590 MJ / km
	<u>Segregation class</u> b
	<u>Tensile force</u> 100 N

Mechanical Properties

Bending radius	≥ 30 mm during operation (without load)
	≥ 60 mm during installation (with load)
Temperature range	During operation -20°C...+ 60°C
	During installation -0°C...+ 50°C

**Electrical Properties
(at 20°C ± 5°C)**

DC loop residence	≤ 16.5 Ω / 100 m
Resistance unbalance	≤ 2 %
Test voltage	DC, 1 min, core/core 1000 V
Insulation resistance	500 V ≥ 5000 MΩ * km
Capacitance	43 pF / m nom.
Capacitance unbalance	≤ 1500 pF / km
Mean characteristic impedance	100±5Ω
Nominal velocity of propagation	Approx. 76 %
Propagation delay	At 1 MHz ≤ 500 ns / 100 m
Delay skew	≤ 20 ns / 100 m
Coupling attenuation	≥ 80 dB
Balance TCL	At 1 MHz ≤ 40 dB
	At 10 MHz ≤ 40 dB
	At 100 MHz ≤ 20 dB

Typical transmission characteristics (at 20°C)

F (MHZ)	Attenuation (Db/100 m)		NEXT (dB)		PS-NEXT (dB)		ACR-F 1) (dB/100 m)		PS-ACR -F 1) (dB/100 m)		Return loss (dB)	
	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ
4	3.8	3.5	66.3	100	63.3	97	56	84	53	81	23	24
10	5.9	5.6	60.3	100	57.3	97	48	83	45	80	25	30
20	8.4	7.9	55.8	100	52.8	97	42	81	39	78	25	30
62.5	15	14.2	48.4	100	45.4	97	32.1	67	29.1	64	21.5	30
100	19.1	18.5	45.3	100	42.3	97	28	63	25	60	20.1	30
250	31.1	29.1	39.3	90	36.3	87	20	55	17	52	17.3	25
500	45.3	44.8	-	83	31.8	80	14	52	11	49	17.3	21