

Cat.6A S/FTP

LSZH 4x2x23 AWG



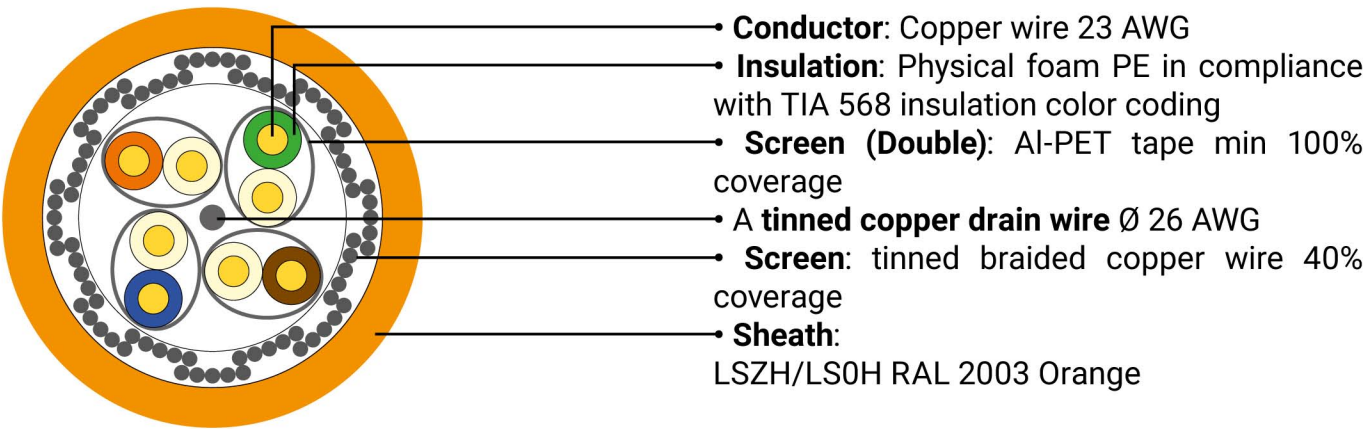
Application

Multicore and symmetrical twisted pair cable for digital communications:

• Type **Cat. 6A S/FTP 4x2x23 AWG LSZH** is designed for structured cabling networks with single laying and laying in bundles inside buildings, constructions and equipment. This cable type can operate at frequencies up to 500 MHz, 10 Gbit/s 10 Gigabit Ethernet in conditions of increased electromagnetic action and where low smoke emission is required.



Cable structure



Standards

ISO/IEC 11801-1, IEC 61156-5
EN 50288-10-1
ANSI EIA/TIA 568.2-D

Specifications

Temperature range: fixed.....-20°C...+60°C
flexing.....0°C...+50°C
Bending radius: fixed.....min. 4 x D
flexing.....min. 8 x D
Tensile strength.....max. 100 N
Crushing strength.....min. 1000 N/10 cm
Impact strength.....min. 10 impacts
Conductor resistance.....max. 85 Ω/km
Resistance imbalance.....max. 2%
Insulation resistance.....min. 5000 MΩ x km
Capacitance.....max. 56 pF/m
Capacity imbalance.....max. 1600 pF/km
Velocity of propagation.....78-80%
Propagation delay.....max. 537 ns/100 m
Signal delay.....max. 25 ns/100 m
Test voltage.....1000 V
Operating voltage.....max. 72 V
TCL min. «Level 2»
Coupling attenuation «Type II»
Transfer impedance «Class 2»

Fre- quency, MHz	Attenuation [dB/100 m]	NEXT [dB]	PS-NEXT [dB]	ACR [dB/100 m]	PS-ACR [dB/100 m]	ACR-F [dB/100 m]	PS-ACR-F [dB/100 m]	RL [dB]
	max.	min.	min.	min.	min.	min.	min.	min.
1*	2,1	75,3	72,3	73,2	70,2	68	65	20
10	5,9	60,3	57,3	54,4	51,4	48	45	25
16	7,5	57,2	54,2	49,7	46,7	43,9	40,9	25
20	8,4	55,8	52,8	47,4	44,4	42,0	39,0	25
100	19,1	45,3	42,3	26,2	23,2	28,0	25,0	20,1
250	31,1	39,3	36,3	8,2	5,2	20,0	17,0	17,3
400	40,1	36,3	33,3	-3,8	-6,8	16,0	13,0	17,3
500	45,3	34,8	31,8	-10,4	-13,4	14,0	11,0	17,3

*Values up to 4 MHz are for general information

Cable structure	Diameter, mm nom	Cable weigh, kg/km, approx.	Sheath color	Packaging, m	CPR
					Eca
Cat. 6A S/FTP 4x2x23 AWG LSZH	8,1	66	Orange	500/1000	Dca