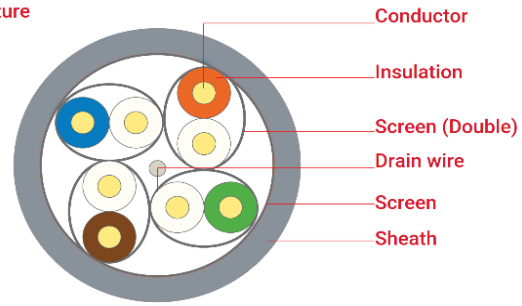
SYS500 F/F23 LSZH Category 6A F/FTP 4x2x23AWG

Cable structure



Conductor: Electrolytic copper wire, Ø 23AWG

Insulation: Physical foam PE, in compliance with TIA 568 insulation colour coding 70°C, EN 50290-2-23

Screen(Double): Al-Pet tape min. 100% coverage

Drain wire: Tinned copper, Ø 26AWG

Screen: Al-Pet tape min. 100% coverage

Sheath:LSZH/LS0H - RAL 7001 Gray, Ø 7.0 mm
70°C, EN 50290-2-27

Applications

Utilising physical foam insulation technology, this data cable range is designed for analogue and digital signal transmission in audio, video and data applications supporting 500 MHz, 10Gbit/s 10 Gigabit Ethernet. Cables meet the requirements of structural cabling standards including ANSI EIA/TIA 568, ISO/IEC 11801 and EN 50173 Class EA.
IEEE 802.3:10Base-T; 100Base-T; 1000Base-T; 10GBase-T IEEE 802.5 16 MB; ISDN; TPDDI; ATM
Power over Ethernet (PoE) / PoE+

Standards

ISO/IEC 11801 2nd ed., IEC 61156-5
EN 50173-1, EN 50288-10-1
ANSI EIA/TIA 568-C.2

Fire performance

Vertical flame propagation	EN 60332-1-2 (LSZH)
Corrosive gas	EN 60754-1/2 (LSZH)
Smoke density	EN 61034-2 (LSZH)

EU declaration of conformity

LVD	Low Voltage Directive	2014/35/EU
RoHS	Restriction of Hazardous Substances	2011/65/EU

Product Code

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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.	110 N
Crushing strength		min.	1000 N/10 cm
Impact strength		min.	10 impacts
Conductor resistance		max.	75 Ω/km
Resistance imbalance		max.	2%
Insulation resistance		min.	5000 MΩ x m
Capacitance		nom.	42 pF/m
Capacity imbalance		max.	1600 pF/km
Rated impedance			100 ± 5 Ω @100 MHz
Velocity of propagation			78-80%
Propagation delay		max.	430 ns/100 m
Signal delay		max.	25 ns/100 m
Test voltage			1000 V
Operating voltage		max.	125 V
TCL		min.	"Level 2"
Coupling attenuation			"Type II"
Transfer Impedance			"Class 2"
Segregation class			"c" EN 50174-2

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Transmission characteristics @ 20°C

Frequency [MHz]	Attenuation [dB/100 m] typ.	max.	NEXT [dB] typ.	max.	PS-NEXT [dB] typ.	max.	ACR [dB/100 m] typ.	max.	PS-ACR [dB/100 m] typ.	max.	ACR-F [dB/100 m] typ.	max.	PS-ACR-F [dB/100 m] typ.	max.	RL [dB] typ.	max.
1	1.9	2.1	95	75.3	92	72.3	93	73.2	90	70.2	100	68	97	65	26	20
4	3.5	3.8	95	66.3	92	63.3	91	62.5	88	59.5	100	56	97	53	27	23
10	5.6	5.9	95	60.3	92	57.3	89	54.4	86	51.4	92	48	89	45	30	25
16	6.9	7.5	95	57.2	92	54.2	88	49.8	85	46.8	88	43.9	85	40.9	30	25.7
31.25	9.80	10.5	95	52.9	92	49.9	85	42.4	82	39.4	82	38.1	79	35.1	30	23.6
62.50	14.1	15	95	48.4	92	45.4	81	33.4	78	30.4	76	32.1	73	29.1	30	21.5
100	17.7	19.1	95	45.3	92	42.3	77	26.2	74	23.2	72	28	69	25	30	20.1
250	29.5	31.1	85	39.3	82	36.3	55	8.3	52	5.3	64	20	61	17	24	17.3
400	38.8	40.1	80	36.3	77	33.3	41	-3.8	38	-6.8	57	16	54	13	23	15.9
500	43.5	45.3	75	34.8	72	31.8	31	-10.4	28	-13.4	55	14	52	11	22	15.2

IEC 61156-5, EN 50288-10-1