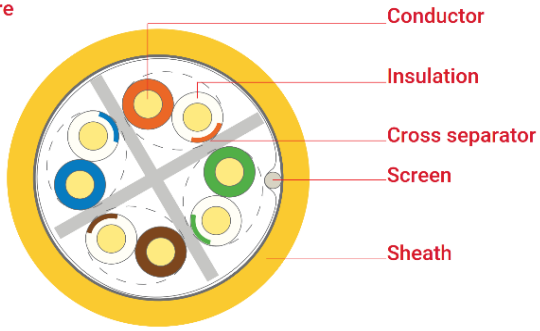
SYS400 F/U23 LSZH Category 6 F/UTP 4x2x23AWG

Cable structure



Conductor: Electrolytic copper wire, Ø 23AWG

Insulation: HDPE in compliance with TIA 586 insulation colour coding 80°C, EN 50290-2-23

Screen: Pet tape min. 100% coverage
Tinned copper drain wire, Ø 26AWG
Al-Pet tape min. 100% coverage

Sheath: LSZH/LS0H - RAL 1018 Yellow, Ø7.2 mm 70°C, EN 50290-2-27

Applications

This data cable range is designed for analogue and digital signaltransmission in audio, video and data applications in data communication systems supporting 250 MHz, 1.0 Gbit/s 1 Gigabit Ethernet. Cables meet the requirements of structural cabling standards including ANSI EIA/TIA 568, ISO/IEC 11801 and EN 50173 Class E.
IEEE 802.3:10Base-T; 100Base-T; 1000Base-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 50288-6-1
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.	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 m
Capacitance		nom.	50 pF/m
Capacity imbalance		max.	1600 pF/km
Rated impedance			100 ± 5 Ω @100 MHz
Velocity of propagation			67-69%
Propagation delay		max.	537 ns/100 m
Signal delay		max.	45 ns/100 m
Test voltage			1000 V
Operating voltage		max.	125 V
TCL		min.	"Level 2"
Coupling attenuation			"Type II"
Segregation class			"c" EN 50174-2
Transfer Impedance			"Class 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	82	66	79	64	80	63.9	77	61.9	85	66	82	64	26	20
4	3.8	3.8	76	65.3	73	63.3	72	61.4	69	59.4	77	58	74	55	31	23
10	5.9	6	70	59.3	67	57.3	64	53.3	61	51.3	68	50	64	47	32	25
16	7.4	7.6	65	56.2	62	54.2	58	48.6	55	46.6	63	45.9	60	42.9	34	25
31.25	10.5	10.7	60	51.9	57	49.9	49	41.1	46	39.1	51	40.1	48	37.1	36	23.6
62.50	15.1	15.5	58	47.4	55	45.4	43	31.9	40	29.9	44	34.1	41	31.1	32	21.5
100	19	19.9	52	44.3	49	42.3	33	24.4	30	22.4	35	30	32	27	32	20.1
250	31	33	48	38.3	45	36.3	17	5.3	14	3.3	19	22	16	19	30	173
300	36	-	43	-	40	-	13	-	10	-	14	-	11	-	28	-
400	41.6	-	40	-	37	-	8	-	5	-	8	-	5	-	26	-

IEC 61156-5, EN 50288-5-1