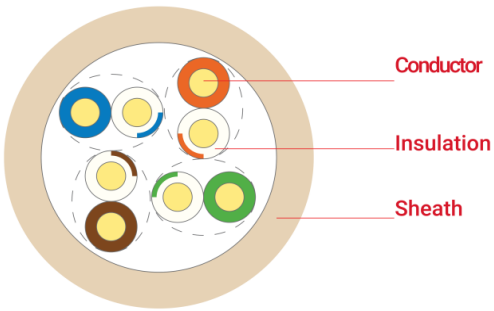
SYS200 U24 LSZH Category 5e U/UTP 4x2x24AWG Euro-Class Eca

Cable structure



Conductor: Electrolytic copper wire, Ø 24AWG

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

Sheath: LSZH/LS0H - RAL 1015 Cream, Ø5.0 mm 70°C, EN 50290-2-27

Applications

This data cable range is designed for analogue and digital signal transmission in audio, video and data applications in data communication systems supporting 100 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 D.
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 50288-3-1
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

[illegible]1[illegible]

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.	85 N
Crushing strength		min.	1000 N/10 cm
Impact strength		min.	10 impacts
Conductor resistance		max.	95 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 III"
Segregation class			"b" 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	71	65.3	68	62.3	69	63.2	66	60.2	82	63.8	79	60.8	23	20
4	3.6	4	62	56.3	59	53.3	58	52.3	55	49.3	70	51.8	67	48.8	33	23
10	5.5	6 . 3	56	50.3	53	47.3	51	44	48	41	55	43.8	52	40.8	31	25
16	7.7	8	54	47.2	51	44.2	46	39.2	43	36.2	48	39.7	45	36.7	32	25
31.25	11.3	11.4	50	42.9	47	39.9	39	31.5	36	28.5	40	33.9	37	30.9	32	23.6
62.50	16.2	16.5	45	38.4	42	35.4	29	21.8	26	18.8	37	27.9	34	24.9	29	21.5
100	21	21.3	42	35.3	39	32.3	21	14	18	11	30	23.8	27	20.8	27	20.1
200	27.5	-	36	-	33	-	9	-	6	-	22	-	19	-	19	-

IEC 61156-5, EN 50288-3-1