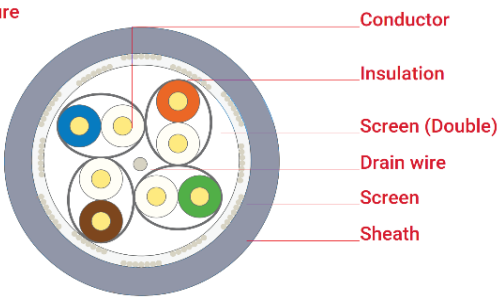
SYS1200 S/F23 LSZH Category 7A S/FTP 4x2x23AWG

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: Tinned braided copper wire, 40% coverage

Sheath: LSZH/LS0H - RAL 7001 Grey, Ø 7.6 mm

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 1 GHz, 10 Gbit/s 10 Gigabit Ethernet. Cables meet the requirements of structural cabling standards including ANSI EIA/TIA 568, ISO/ IEC 11801 and EN 50173 Class FA.
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 50288-9-1

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

?3?8?10403

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.	120 N
Crushing strength		min.	1000 N/10 cm
Impact strength		min.	10 impacts
Conductor resistance		max.	68 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 Ib"
Transfer Impedance			"Class 1"
Segregation class			"d" 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	104	78	101	75	102	72.9	99	72.9	108	78	105	75	26	20
4	3.5	3.7	104	78	101	75	100	71.3	97	71.3	107	78	104	75	30	23
10	5.4	5.8	104	78	101	75	99	69.2	96	69.2	104	75.3	101	72.3	33	25
100	17.4	18.5	104	75.4	101	72.4	87	53.9	84	53.9	92	55.3	89	52.3	33	20.1
200	24.9	26.5	104	70.9	101	67.9	79	41.4	76	41.4	84	49.3	81	46.3	32	18
250	27.8	29.7	104	69.4	101	66.4	76	36.7	73	36.7	79	47.3	76	44.3	30	17.3
500	40.1	42.8	99	64.9	96	61.9	59	19.2	56	19.2	67	41.3	64	38.3	28	17.3
600	43.8	47.1	93	63.7	90	60.7	50	13.6	47	13.6	60	39.7	57	36.7	25	17.3
800	50.1	54.9	86	61.9	83	58.9	32	3.9	29	3.9	53	37.2	50	34.2	23	16.1
1000	59.0	61.9	84	60.4	81	57.4	26	-4.5	23	-4.5	43	35.3	40	32.3	20	15.1
1200	64	-	82	-	79	-	18	-	15	-	38	-	35	-	19	-

IEC 61156-5, EN 50288-9-1