RSCOM Networking

networking

RSCOMNETWORK LTD.

Systhames Networking

www.rscomnetwork.com

Rscom Networking Cabling Systems

RScom Networking

WHO WE ARE

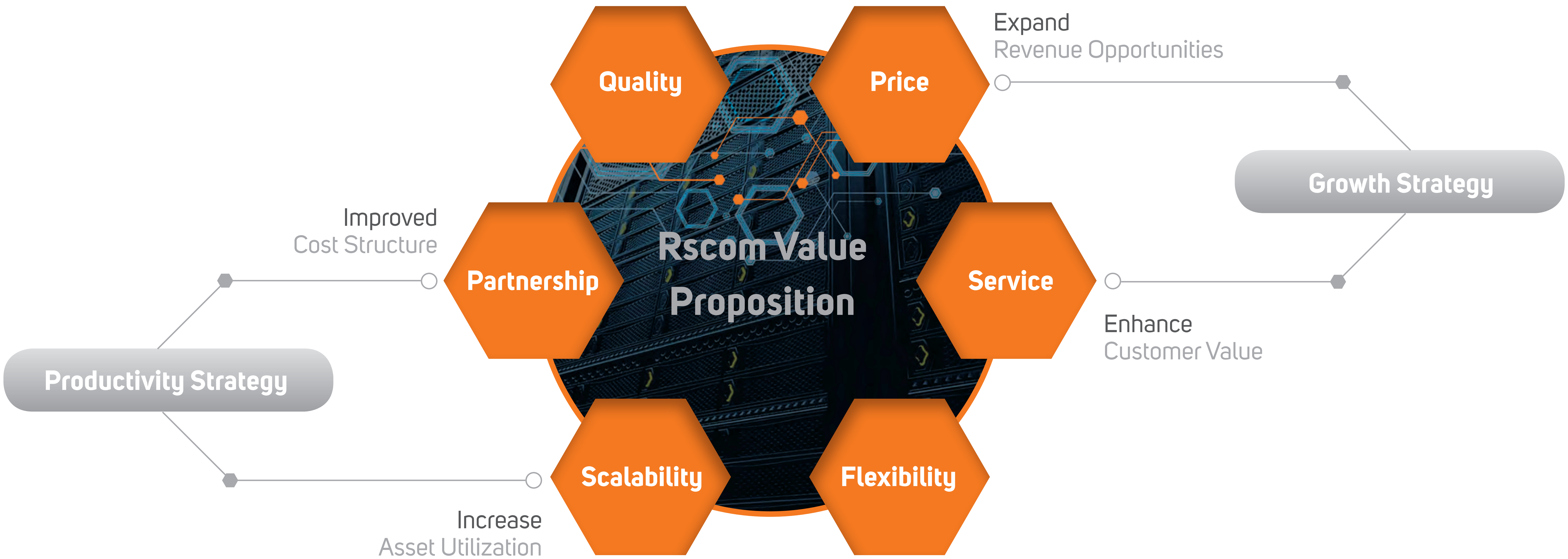
RScomnetwork in customer-oriented design and supply of flexible network physical infrastructure solutions for various sectors. Our fiber, copper and rack systems are deployed in Data Centers, Enterprise Networks, Transportation Networks, Broadcast and CATV Networks, as well as Telecom and FTTx sectors.

Our expert staff with more than ten years of experience in the industry is dedicated to providing you with professional knowledge that meets your market needs.

Rscomnetworking develops superior products and solutions in close collaboration with customers, meeting the legal and regulatory requirements of products and meeting the needs of customers and other stakeholders. Our structured cabling and modular racking system can be used as a fully integrated solution or can be flexibly adapted to other or partially compatible solutions. With our customer-focused focus, our flexible solutions help you greatly improve cost structure and increase asset utilization. With rscom, it helps you expand your revenue opportunities by reducing TCO (Total Cost of Ownership) and achieving a better ROI.

25 YEAR WARRANTY Cabling Systems

www.**rscomnetwork**.com


Quality
Price
Expand
Revenue Opportunities
Growth Strategy
Improved
Cost Structure
Partnership
Rscom Value Proposition
Service
Enhance
Customer Value
Productivity Strategy
Scalability
Flexibility
Increase
Asset Utilization

COMMITTED TO QUALITY
MARKET COMPETITIVE PRICING

We are committed to providing excellent product solutions that anticipate and exceed our clients' expectations. Our long-term commitment to quality begins with executive endorsement and continues throughout the organization. We strive for continuous improvement on product, quality, flexibility, and competency of the products and services we supply. Without compromising quality and scarifying market competitiveness, we work out the best balance to offer our product solutions in innovative and cost effective ways, so as to maximize profits of our clients.

Quality **Price**

RSCOM Networking

Rscom Cabling Systems provides the highest quality components with guaranteed performance

Rscom Cabling Systems Channel Program provides full channel protection and secures the channel profits

STRATEGIC PARTNERSHIP
COMMITTED SERVICE

We work in close collaboration with clients by delivering professional know-how and experience in manufacturing and supply of innovative and market-focus product solutions. By addressing real market needs and keeping close track on the latest technology trends, we work as strategic partner of our clients to overcome the challenges of today's ever-changing IT technology development. We aim to increase flexibility in the decision-making process of our strategic partners, from the decision on the best deployment of product solutions, to the decision of new product development endorsement. Our goal is to enhance end-user's satisfaction and to optimize customer values.

Partnership **Service**

Rscom is dedicated to provide optimal product solutions by combining our extensive knowledge with our passion for providing excellent customer service before, during and after the sales. With service orientation in mind, we continuously seek to improve each customer's experience by listening and striving to exceed our commitments.

RSCOM Networking

SCALABILITY
FLEXIBILITY

The foundation of design of our product solutions is to optimize network physical infrastructure by emphasizing scalability and flexibility. Our structured cabling and rack solutions are designed in a modular and scalable manner to match ever-changing needs of network development. They are engineered and designed by following the principles of simplicity, yet providing a flexible, versatile and reliable solution for your most stringent applications. Our product solutions are flexibly accommodative to other brands coherent solutions in part or in whole. With customer-driven custom adaptation in mind, our flexible solutions support you to improve cost structure and to enhance asset utilization.

Our solutions achieve its scalability and flexibility through these inherent qualities, not only support you to minimize the upfront cost, our modular design rack solutions and comprehensive fiber and copper series help in providing highly flexible mix-and-match bundling feature that minimize ongoing expansion cost, resulting in a greater Return on Investment (ROI), and at the same time improving reliability and availability of the infrastructure that optimize Total Cost of Ownership (TCO).

Scalability **Flexibility**

RSCOM Networking

Rscom Cabling Systems provides the highest quality components with guaranteed performance

- Quality
- Price
- Copper
- Partnership
- Service
- Fiber
- Cabinets
- Scalability
- Flexibility
- Data-Center
- Outdoor

Systhames Cabling Systems

LAN Indoor Copper End-to End Solutions

Cables, Connectors, Panels
& Modular Cords:

- CopperLine Category 3
- CopperLine Category 5
- CopperLine Category 6
- CopperLine Category 6A
- CopperLine Category 7

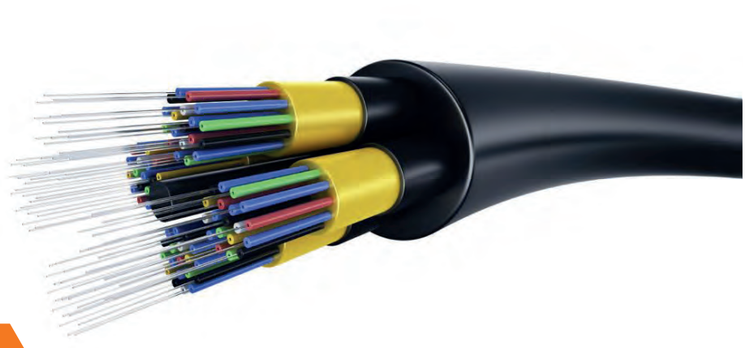
LAN Fiber-Optic End-to End Solutions

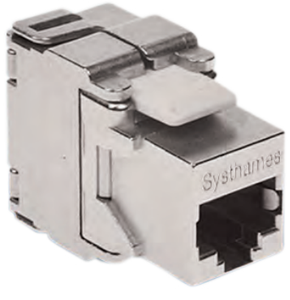
Cables, Connectors, Panels
& Modular Cords:

- FiberLine FO Distribution System
- FiberLine FO Backbone
- FiberLine FO Horizontal System
- FiberLine FO Outlets
- FiberLine FO Cables

CoopperLine

FiberLine





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Data-Center Complete Solutions

- CenterLine Enclosures & Rack Systems (Server & Networking)
- CenterLine Hot/Cold Corridor Containment Systems
- CenterLine Monitoring & Management System
- CenterLine Copper Cabling Solutions
- CenterLine FO Cabling Solutions

CenterLine

RackLine

Cabinets, Racks, Enclosures & Cable Managements Solutions

- RackLine Server Cabinets
- RackLine Networking Cabinets
- RackLine SOHO Cabinets
- RackLine Cable Management Solutions
- RackLine Accessories

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Outdoor cabling solutions

- OutdoorLine Telephone & Category 3 Multipair Cables
- OutdoorLine LAN Cables
- OutdoorLine LAN Connectivity
- OutdoorLine FO Cables
- OutdoorLine FO Connection Boxes
- OutdoorLine Cabinets

Outdoor

Systhames Networking

EZ NEXT™ | Systhames Networking

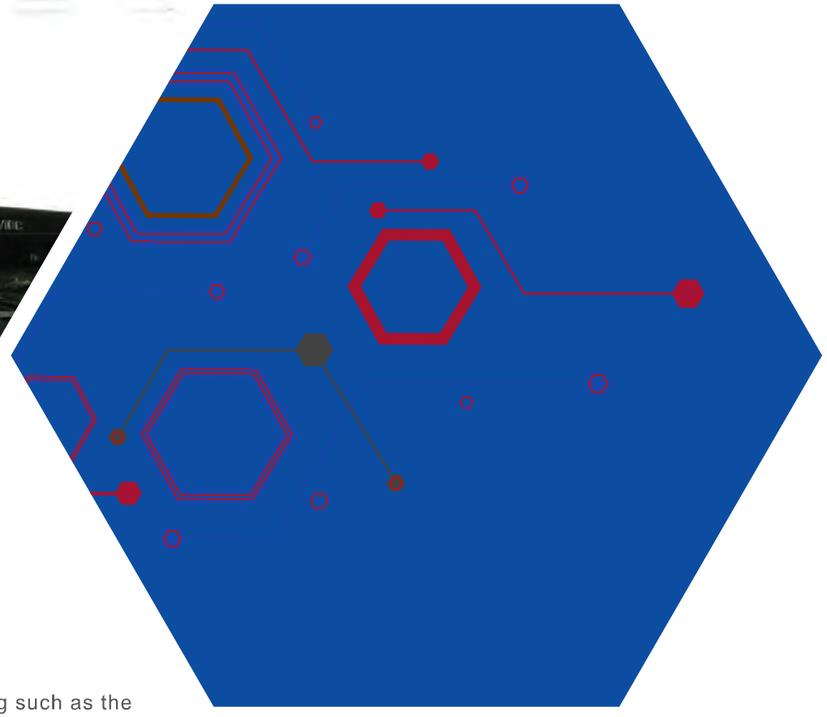
Smart Patch Panes for Fiber and Copper

NEW Product

Cat 8 Shielded Toolless Keystone Jack - 40G - (Fits Cat7A & Cat8 Cable)

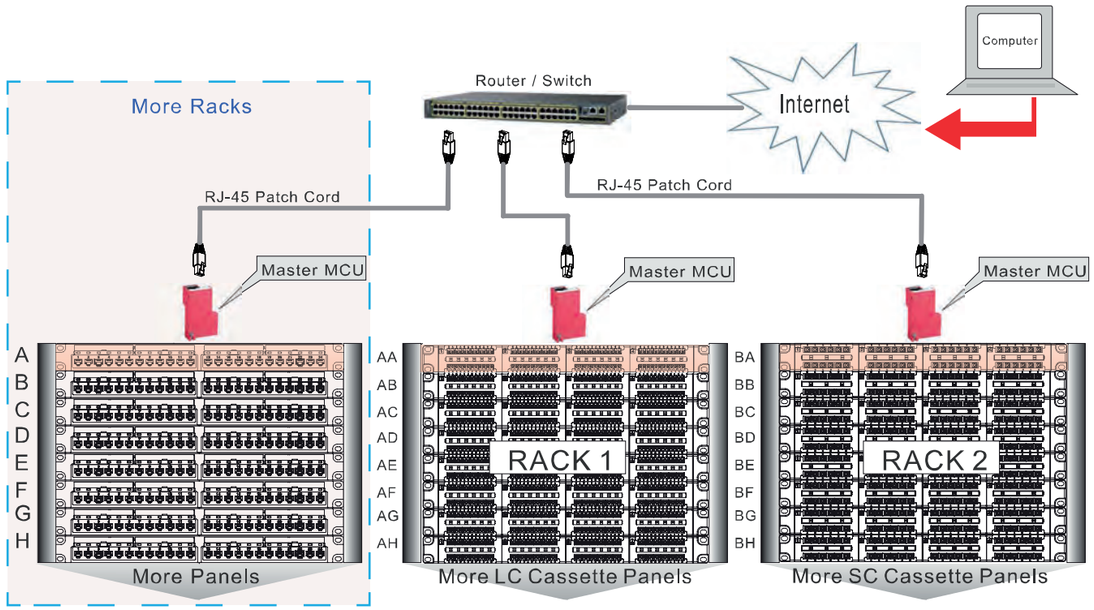
RSCom Networking

The EZNEXT system supports both Fiber & Copper solutions

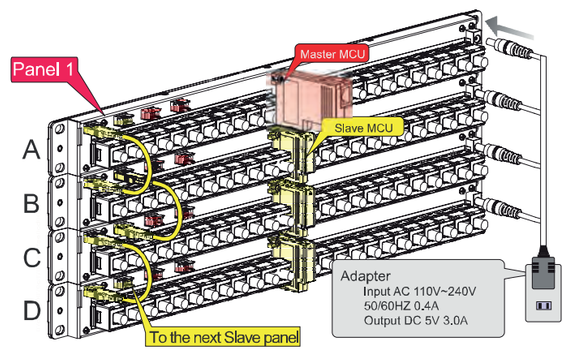


System structure

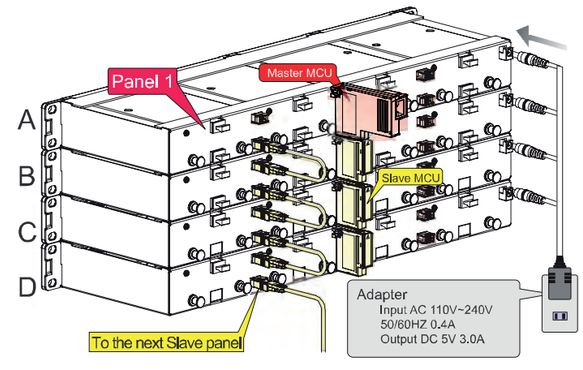
Patent Granted



Copper Patch Panels



LC & SC Cassette Panels



The EZNEXT System enables IT staff to set up information for the cabling such as the planning of Telecommunication Spaces and Rack systems, and the management of cabling equipment, work area and Channel.

Installers will save more time to install or replace panels and modules. The revolutionary replaceable LED and MCU modules allow the owner to replace modules without unloading other structured cabling components. The simplicity of the system design enables users to save costs in training, cabling management and maintenance.

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Efficient

All keystone jacks (both shielded & unshielded) fit into 1U 24-Port and 1U 48-Port panels.

All keystone jacks (both shielded @ unshielded) can be terminated in a single action by the same multi-punch-down tool and the same blade.

NEW Product

Cat 8 Shielded Toolless Keystone Jack - 40G - (Fits Cat7A & Cat8 Cable)

When you have the need for speed our Cat 8 Shielded Toolless Keystone Jacks can support up to 40G speeds when terminated to our Cat 7 or 8 cable. They will help you future-proof your network and give you peace of mind knowing that your infrastructure can hold up to the growing network demands.

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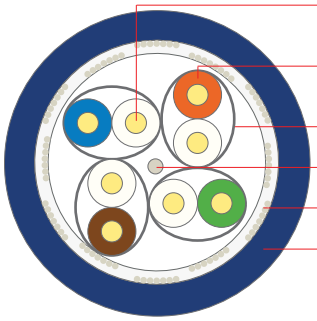
SYS1500 S/F22

Category 7A+ S/FTP

Data Cables

Cable structure



Electrolytic copper wire, Ø 22AWG

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

Al-Pet tape min. 100% coverage

Tinned copper drain wire, Ø 26AWG

Tinned braided copper wire, 40% coverage

LSZH/LS0H - RAL 5002 Blue, Ø 7.8 mm
70°C, EN 50290-2-27
PVC - RAL 7001 Grey, Ø 7.8 mm
TM51 70°C, EN 50290-2-22
PE - RAL 9011 Black, Ø 7.8 mm
80°C, EN 50290-2-24

Application

Utilising physical foam insulation technology, this data cable range is designed for analogue and digital signal transmission in audio, video and data applications supporting 1.2 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 61156-7
EN 50173-1

Fire performance

Vertical flame propagation	EN 60332-1-2 (LSZH-PVC)
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

Specifications

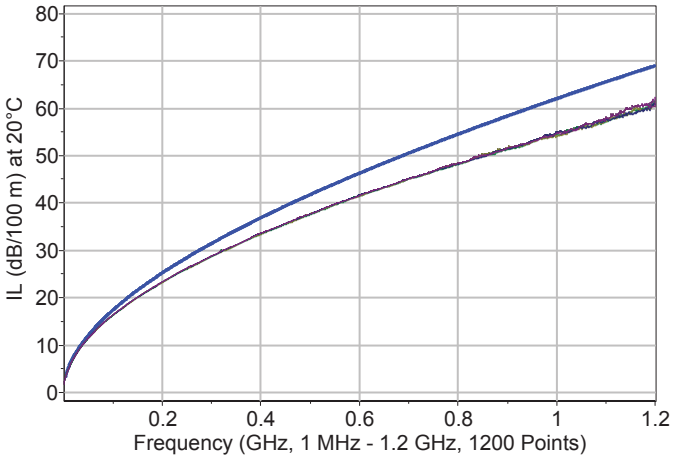
Temperature range	fixed		-20°C ...+60°C
	flexing		0°C ...+50°C
Bending radius	fixed	min.	4 x D
	flexing	min.	8 x D
Tensile strength		max.	135 N
Crushing strength		min.	1000 N/10 cm
Impact strength		min.	10 impacts
Conductor resistance		max.	60 Ω/km
Resistance imbalance		max.	2%
Insulation resistance		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

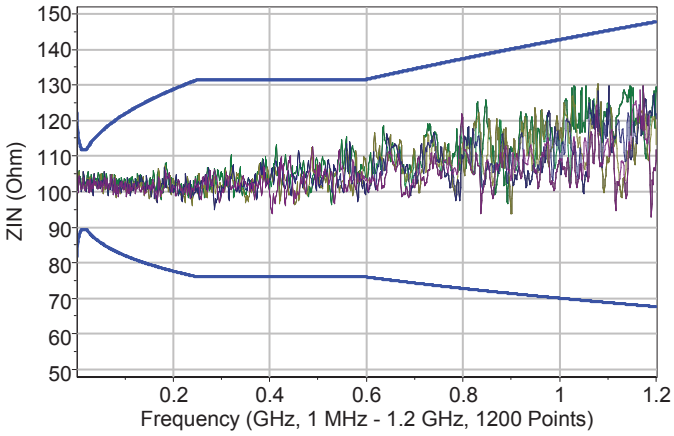
Specifications may vary depending on technical modifications.

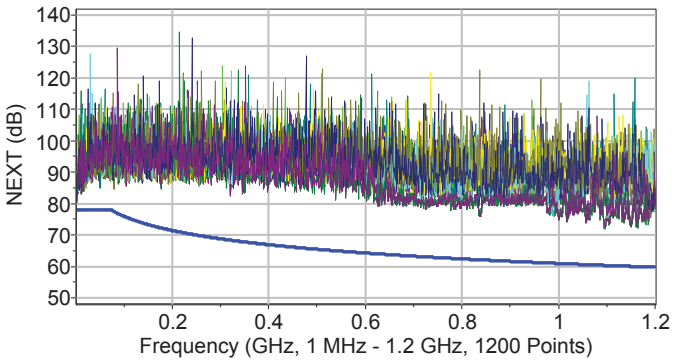
Systhames Networking

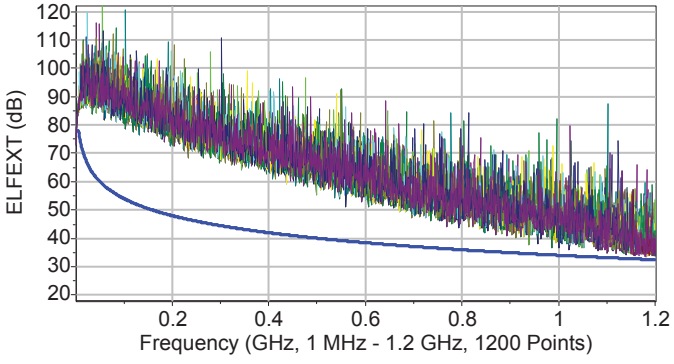
Frequency [MHz]	Attenuation [dB/100 m] typ.	max.	NEXT [dB] typ.	max.	PS-NEXT [dB] typ.	max.	ACR [dB/100 m] typ.	max.	PS-ACR [dB/100 m] typ.	max.	ACR-F [dB/100 m] typ.	max.	PS-ACR-F [dB/100 m] typ.	max.	RL [dB] typ.	max.
1	1.7	1.9	105	78	102	75	103	76.1	100	76.1	100	73.1	110	78	107	75
4	3.2	3.5	105	78	102	75	102	74.5	99	74.5	99	71.5	108	78	105	75
10	4.9	5.4	105	78	102	75	100	72.6	97	72.6	97	69.6	105	74	102	71
100	16.1	17.5	105	76	102	73	89	58.5	86	58.5	86	55.5	95	54	92	51
250	26	28.5	105	70	102	67	79	41.5	76	41.5	76	38.5	85	46	82	43
500	37.2	41.8	99	65.5	96	62.5	62	23.7	59	23.7	59	20.7	71	40	78	37
600	40.2	46.3	96	64.3	93	61.3	56	18	53	18	53	15	63	38.4	60	35.4
800	49	56.9	93	62	90	59	44	5.1	41	5.1	41	2.1	56	35.3	53	32.3
1000	54.8	62	88	61	85	58	33	-1	30	-1	30	-4	52	34	49	31
1200	58.0	69	85	59.8	82	56.8	27	-9.2	24	-9.2	24	-12.2	43	32.4	40	29.4
1500	67.5	-	81	-	78	-	15	-	12	-	12	-	38	-	35	-

IEC 61156- 7









Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]	Sheath colour	Packaging [m]
507013	SYS 500 S/F22 LSZH Cat 7A+ S/FTP 4x2x22AWG	7.8 7.8 7.8	32	67	Blue (RAL 5002)	500/1000
507014	SYS 1500 S/F22 PVC Cat 7A+ S/FTP 4x2x22AWG		32	66	Grey (RAL 7001)	500/1000
507015	SYS 1500 S/F22 PE Cat 7A+ S/FTP 4x2x22AWG		32	59	Black (RAL 9011)	500/1000

Specifications may vary depending on technical modifications.

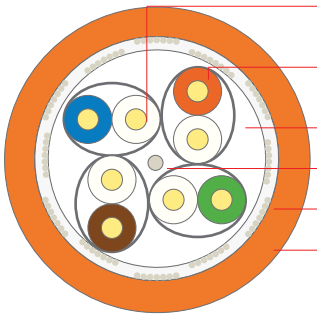
Systhames Networking

SYS 1200 S/F23

Category 7A S/FTP

Data Cables

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 drain wire, Ø 26AWG
Screen	Tinned braided copper wire, 40% coverage
Sheath	LSZH/LS0H - RAL 2003 Orange, Ø 7.6 mm 70°C, EN 50290-2-27 PVC - RAL 7001 Grey, Ø 7.6 mm TM51 70°C, EN 50290-2-22 PE - RAL 9011 Black, Ø 7.6 mm 80°C, EN 50290-2-24

Application

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-PVC)
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

Specifications

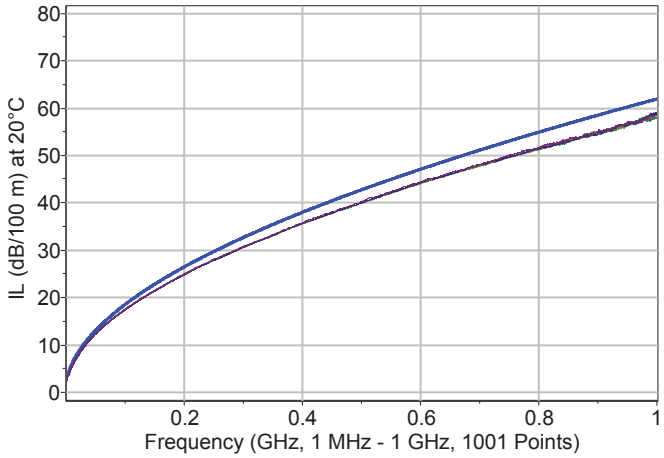
Temperature range	fixed		-20°C ...+60°C
	flexing		0°C ...+50°C
Bending radius	fixed	min.	4 x D
	flexing	min.	8 x D
Tensile strength		max.	120 N
Crushing strength		min.	1000 N/10 cm
Impact strength		min.	10 impacts
Conductor resistance		max.	68 Ω/km
Resistance imbalance		max.	2%
Insulation resistance		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

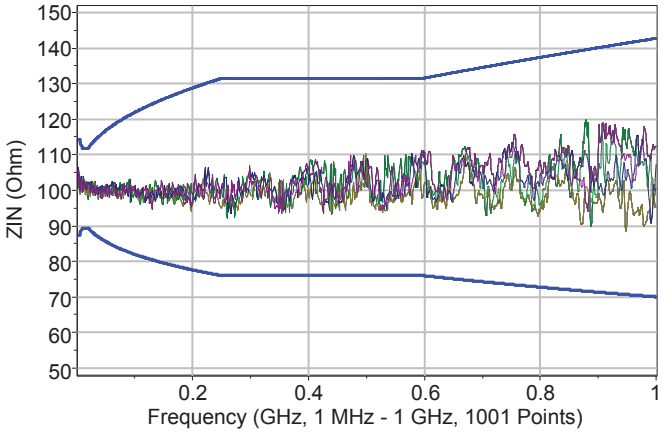
Specifications may vary depending on technical modifications.

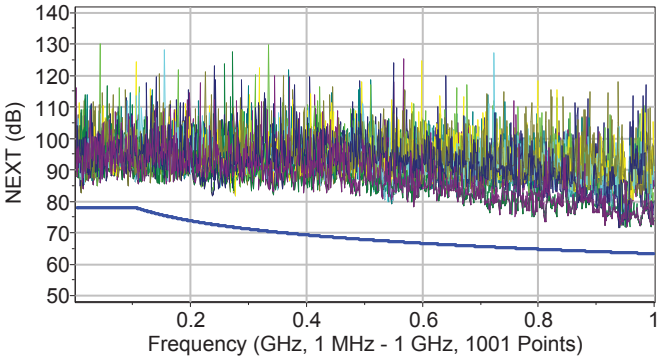
Systhames Networking

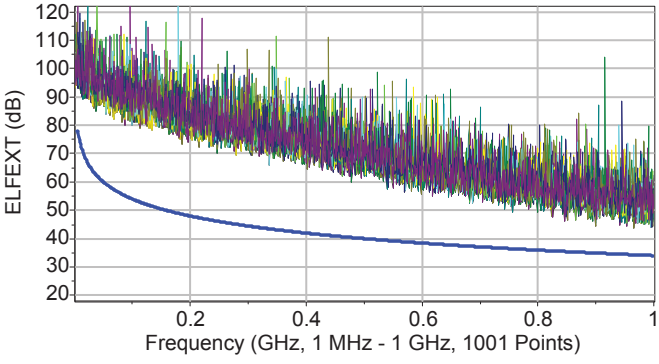
Frequency [MHz]	Attenuation [dB/100 m] typ.max.		NEXT [dB] typ.max.		PS-NEXT [dB] typ.max.		ACR [dB/100 m] typ.max.		PS-ACR [dB/100 m] typ.max.		ACR-F [dB/100 m] typ.max.		PS-ACR-F [dB/100 m] typ.max.		RL [dB] typ.max.	
1	1.9	2.1	104	78	101	75	102	72.9	99	72.9	108	7 8	105	75	26	20
4	3.5	3.7	104	78	101	75	100	71.3	97	71.3	107	7 8	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









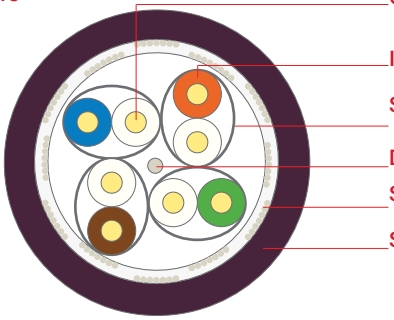
Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]	Sheath colour	Packaging [m]
507007	SYS1200 S/F23 LSZH Cat 7A S/FTP 4x2x23AWG	7.6	30	60	Orange (RAL 2003)	500/1000
507008	SYS1200 S/F23 PVC Cat 7A S/FTP 4x2x23AWG	7.6	30	59	Grey (RAL 7001)	500/1000
507009	SYS1200 S/F23 PE Cat 7A S/FTP 4x2x23AWG	7.6	30	54	Black (RAL 9011)	500/1000

Specifications may vary depending on technical modifications.

SYS900 S/F23
Category 7 S/FTP

Data Cables

Cable structure



Electrolytic copper wire, Ø 23AWG

Physical foam PE, in compliance with TIA 568 insulation colour coding
70°C, EN 50290-2-23
Al-Pet tape min. 100% coverage

Tinned copper drain wire, Ø 26AWG

Tinned braided copper wire, 40% coverage

LSZH/LS0H - RAL 4007 Purple, Ø 7.4 mm
70°C, EN 50290-2-27
PVC - RAL 7001 Grey, Ø 7.4 mm
TM51 70°C, EN 50290-2-22
PE - RAL 9011 Black, Ø 7.4 mm
80°C, EN 50290-2-24

Application

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, 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 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 50288-4-1

Fire performance

Vertical flame propagation	EN 60332-1-2 (LSZH-PVC)
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

Specifications

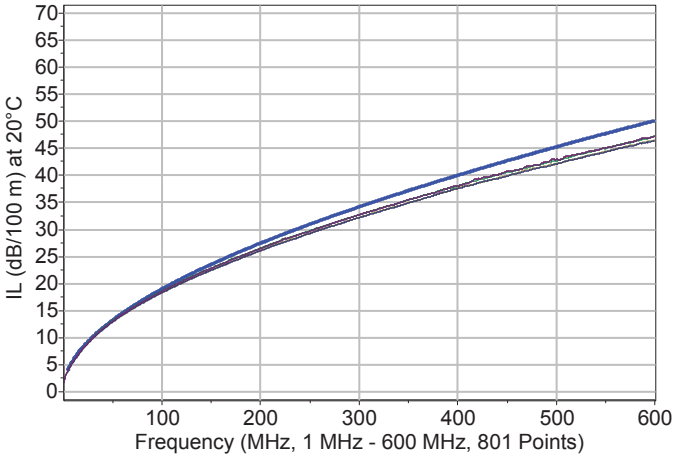
Temperature range	fixed		-20°C ...+60°C
	flexing		0°C ...+50°C
Bending radius	fixed	min.	4 x D
	flexing	min.	8 x D
Tensile strength		max.	110 N
Crushing strength		min.	1000 N/10 cm
Impact strength		min.	10 impacts
Conductor resistance		max.	75 Ω/km
Resistance imbalance		max.	2%
Insulation resistance		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 Ib"
Transfer impedance			"Class 1"
Segregation class			"d" EN 50174-2

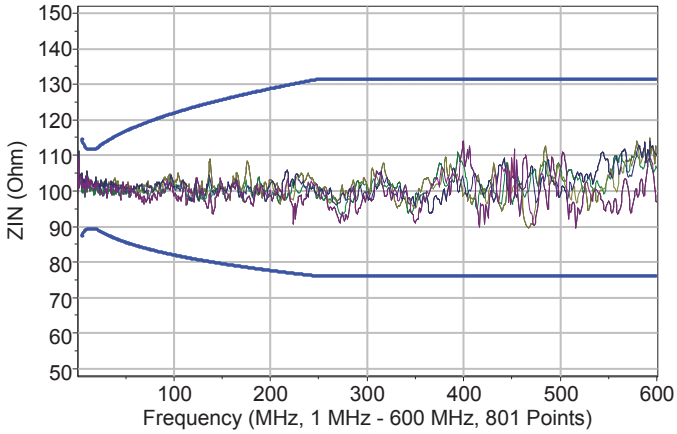
Specifications may vary depending on technical modifications.

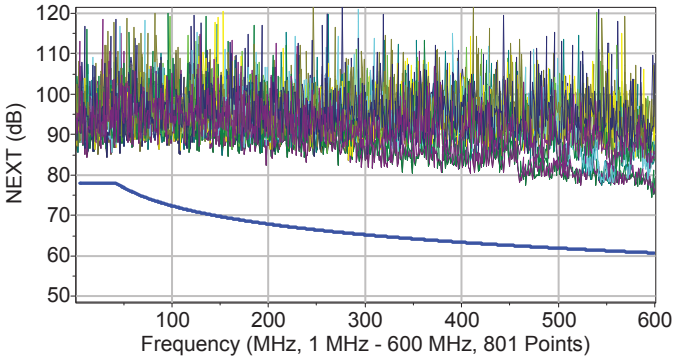
Systhames Networking

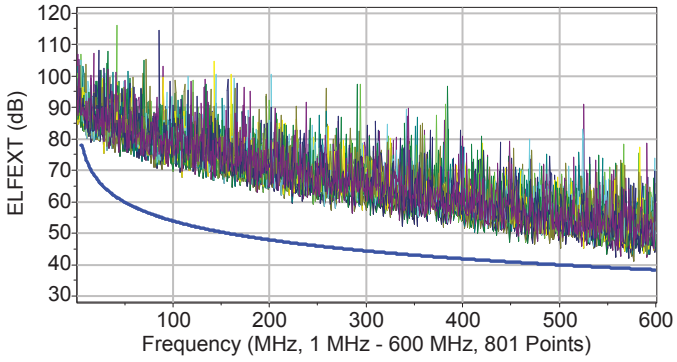
Frequency [MHz]	Attenuation [dB/100 m] typ.	max.	NEXT [dB] typ.	max.	PS-NEXT [dB] typ.	max.	ACR [dB/100 m] typ.	max.	PS-ACR [dB/100 m] typ.	max.	ACR-F [dB/100 m] typ.	max.	PS-ACR-F [dB/100 m] typ.	max.	RL [dB] typ.	max.
1	1.8	2.0	100	80	97	77	98	78	95	75	107	80	104	77	26	20
4	3.3	3.7	100	80	97	77	96	77	93	74	107	80	104	77	30	23
10	5.3	5.9	100	80	97	77	94	74	91	71	104	74	101	71	33	25
100	17.5	19	100	72	97	69	82	54	79	51	92	54	89	51	33	25.7
200	25.2	27.5	100	68	97	65	75	41	72	38	84	48	81	45	32	23.6
250	28.0	31	100	66	97	63	72	36	69	33	81	46	78	43	30	21.5
500	40.5	45.3	96	62	93	59	55	18	52	15	68	40	65	37	27	20.1
600	44.5	50.1	90	61	87	58	45	12	42	9	64	38	61	35	25	17.3
700	53.5	-	84	-	81	-	30	-	27	-	56	-	53	-	23	15.9
800	55.0	-	83	-	80	-	28	-	25	-	54	-	51	-	22	15.2
900	57.0	-	81	-	78	-	24	-	21	-	49	-	46	-	21	

IEC 61156-5, EN 50288-4-1









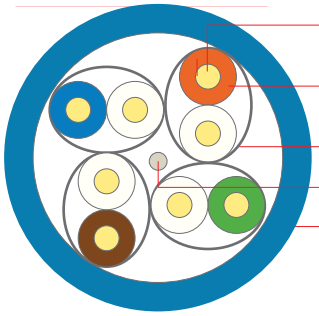
Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]	Sheath colour	Packaging [m]
507001	SYS900 S/F23 LSZH Cat 7 S/FTP 4x2x23AWG	7.4	28	55	Purple (RAL 4007)	500/1000
507002	SYSL900 S/F23 PVC Cat 7 S/FTP 4x2x23AWG	7.4	28	54	Grey (RAL 7001)	500/1000
507025	SYSL900 S/F23 PE Cat 7 S/FTP 4x2x23AWG	7.4	28	48	Black (RAL 9011)	500/1000

SYS500 U/F23

Category 6A U/FTP

Data Cables

Cable structure



Electrolytic copper wire, Ø 23AWG

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

Al-Pet tape min. 100% coverage

Tinned copper drain wire, Ø 26AWG

LSZH/LS0H - RAL 5015 Blue, Ø 7.0 mm
70°C, EN 50290-2-27
PVC - RAL 7001 Grey, Ø 7.0 mm
TM51 70°C, EN 50290-2-22
PE - RAL 9011 Black, Ø 7.0 mm
80°C, EN 50290-2-24

Application

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, 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 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-PVC)
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

Specifications

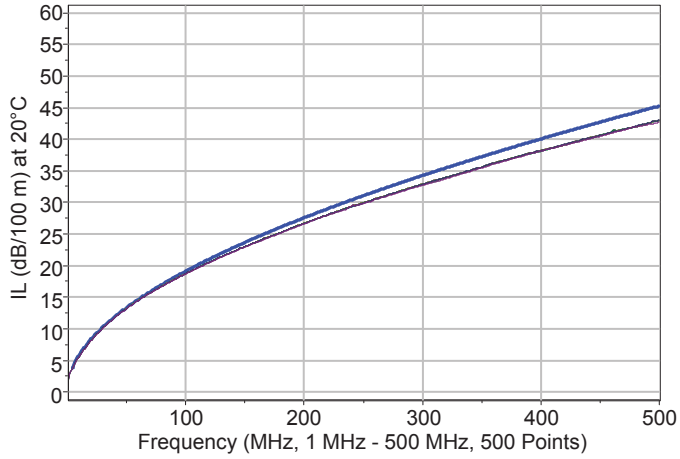
Temperature range	fixed		-20°C ...+60°C
	flexing		0°C ...+50°C
Bending radius			
	fixed	min.	4 x D
	flexing	min.	8 x D
Tensile strength		max.	110 N
Crushing strength		min.	1000 N/10 cm
Impact strength		min.	10 impacts
Conductor resistance		max.	75 Ω/km
Resistance imbalance		max.	2%
Insulation resistance		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

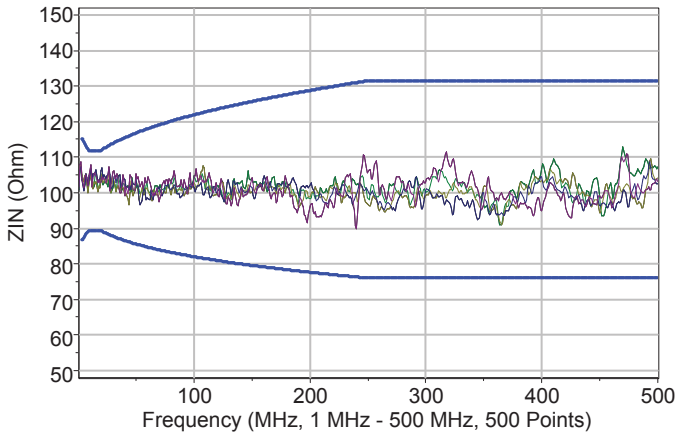
Specifications may vary depending on technical modifications.

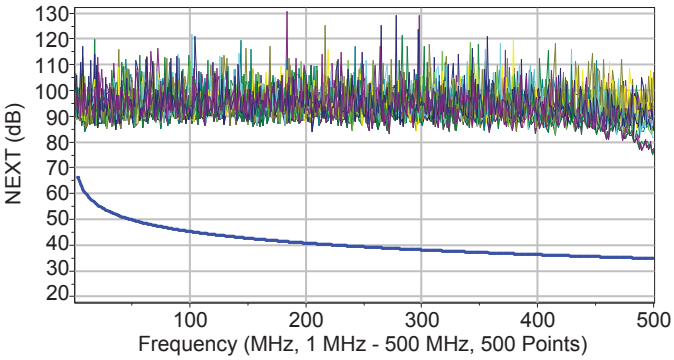
Systhames Networking

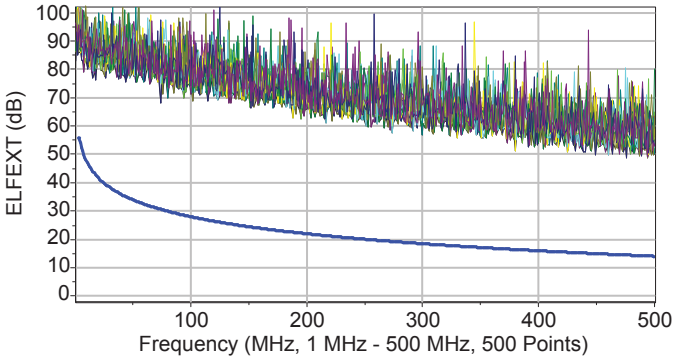
Frequency [MHz]	Attenuation [dB/100 m] typ.	max.	NEXT [dB] typ.	max.	PS-NEXT [dB] typ.	max.	ACR [dB/100 m] typ.	max.	PS-ACR [dB/100 m] typ.	max.	ACR-F [dB/100 m] typ.	max.	PS-ACR-F [dB/100 m] typ.	max.	RL [dB] typ.	max.
1	1.9	2.1	95	75.3	92	72.3	93	73.2	90	70.2	100	68	97	65	26	20
4	3.5	3.8	95	66.3	92	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









Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]	Sheath colour	Packaging [m]
506046	SYS500 U/F23 LSZH Cat 6A U/FTP 4x2x23AWG SL500	7.0	21	50	Blue (RAL 5015)	500/1000
506135	U/F23 LSZH Cat 6A U/FTP 4x2x23AWG SL500 U/F23	7.0	21	50	Orange (RAL 2003)	500/1000
506136	LSZH Cat 6A U/FTP 4x2x23AWG SL500 U/F23Dx	7.0	21	50	Grey (RAL 7001)	500/1000
506064	LSZH Cat 6A U/FTP 2x(4x2x23AWG) SL500 U/F23	7.0x14.0	42	100	Blue (RAL 5015)	500
506040	PVC Cat 6A U/FTP 4x2x23AWG SL500 U/F23 PE Cat	7.0	21	49	Grey (RAL 7001)	500/1000
506052	6A U/FTP 4x2x23AWG	7.0	21	44	Black (RAL 9011)	500/1000

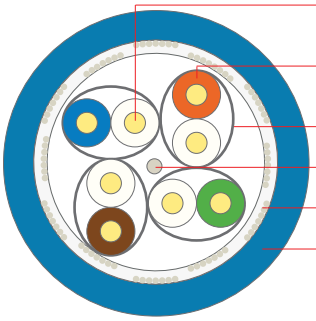
Specifications may vary depending on technical modifications.

Systhames Networking

SYS500 S/F23
Category 6A S/FTP

Data Cables

Cable structure



Electrolytic copper wire, Ø 23AWG

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

Al-Pet tape min. 100% coverage

Tinned copper drain wire, Ø 26AWG

Tinned braided copper wire, 40% coverage

LSZH/LS0H - RAL 2003 Orange, Ø 7.4 mm
70°C, EN 50290-2-27
PVC - RAL 7001 Grey, Ø 7.4 mm
TM51 70°C, EN 50290-2-22
PE - RAL 9011 Black, Ø 7.4 mm
80°C, EN 50290-2-24

Application

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, 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 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-PVC)
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

Specifications

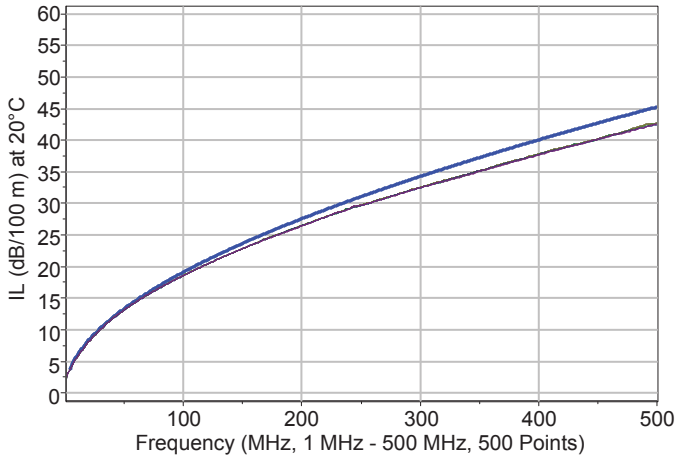
Temperature range	fixed		-20°C ...+60°C
	flexing		0°C ...+50°C
Bending radius	fixed	min.	4 x D
	flexing	min.	8 x D
Tensile strength		max.	110 N
Crushing strength		min.	1000 N/10 cm
Impact strength		min.	10 impacts
Conductor resistance		max.	75 Ω/km
Resistance imbalance		max.	2%
Insulation resistance		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 Ib"
Transfer impedance			"Class 2"
Segregation class			"c" EN 50174-2

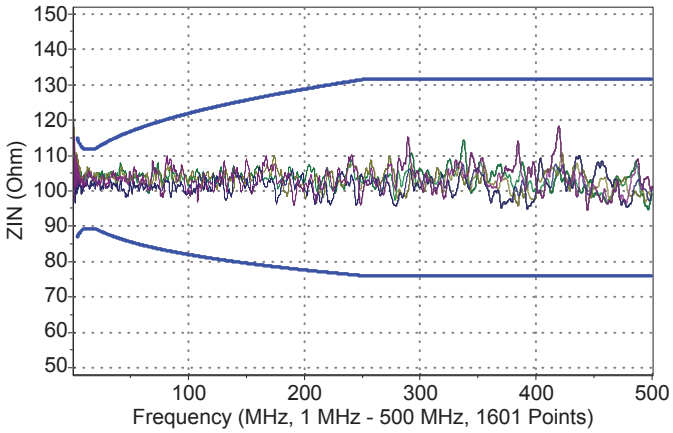
Specifications may vary depending on technical modifications.

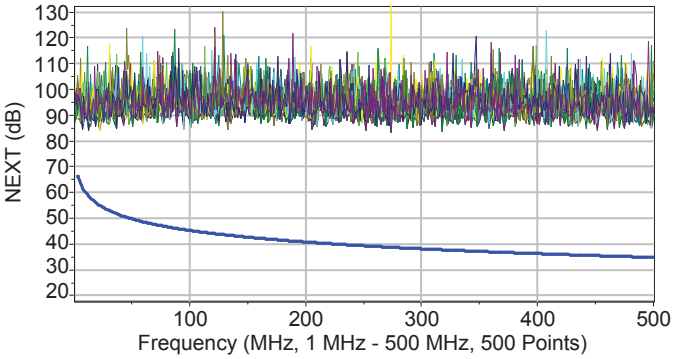
Systhames Networking

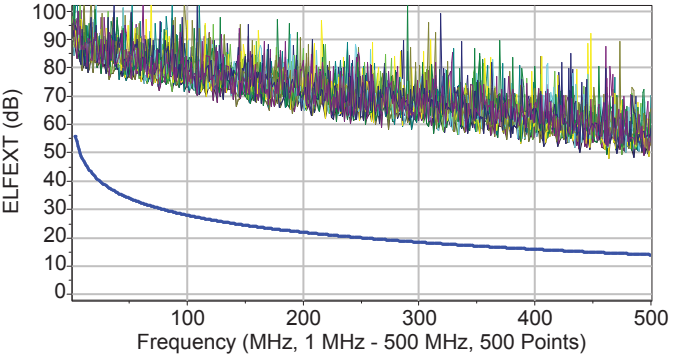
Frequency [MHz]	Attenuation [dB/100 m] typ.max.		NEXT [dB] typ.max.		PS-NEXT [dB] typ.max.		ACR [dB/100 m] typ.max.		PS-ACR [dB/100 m] typ.max.		ACR-F [dB/100 m] typ.max.		PS-ACR-F [dB/100 m] typ.max.		RL [dB] typ.max.	
1	1.8	2.1	95	75.3	92	72.3	93	73.2	90	70.2	100	68	97	65	26	20
4	3.6	3.8	95	66.3	92	63.3	91	62.5	88	59.5	100	56	97	53	27	23
10	5.3	5.9	95	60.3	92	57.3	89	54.4	86	51.4	92	48	89	45	30	25
16	6.8	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	9.9	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	14.2	15	95	48.4	92	45.4	81	33.4	78	30.4	76	32.1	73	29.1	30	21.5
100	18.0	19.1	95	45.3	92	42.3	77	26.2	74	23.2	72	28	69	25	30	20.1
250	28.9	31.1	85	39.3	82	36.3	56	8.3	52	5.3	64	20	61	17	24	17.3
400	37.0	40.1	80	36.3	77	33.3	43	-3.8	38	-6.8	57	16	54	13	23	15.9
500	41.5	45.3	75	34.8	72	31.8	33	-10.4	28	-13.4	55	14	52	11	22	15.2

IEC 61156-5, EN 50288-10-1









Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]	Sheath colour	Packaging [m]
506042	SYS500 S/F23 LSZH Cat 6A S/FTP 4x2x23AWG	7.4	28	55	Blue (RAL 5015)	500/1000
506048	SYS500 S/F23 PVC Cat 6A S/FTP 4x2x23AWG	7.4	28	54	Grey (RAL 7001)	500/1000
506054	SYS500 S/F23 PE Cat 6A S/FTP 4x2x23AWG	7.4	28	48	Black (RAL 9011)	500/1000

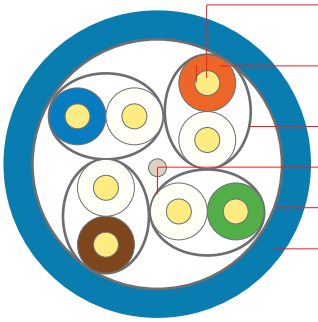
Specifications may vary depending on technical modifications.

SYS500 F/F23

Category 6A F/FTP

Data Cables

Cable structure



Electrolytic copper wire, Ø 23AWG

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

Al-Pet tape min. 100% coverage

Tinned copper drain wire, Ø 26AWG

Al-Pet tape min. 100% coverage

LSZH/LS0H - RAL 5015 Blue, Ø 7.0 mm
70°C, EN 50290-2-27
PVC - RAL 7001 Grey, Ø 7.0 mm
TM51 70°C, EN 50290-2-22
PE - RAL 9011 Black, Ø 7.0 mm
80°C, EN 50290-2-24

Application

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, 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 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-PVC)
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

Specifications

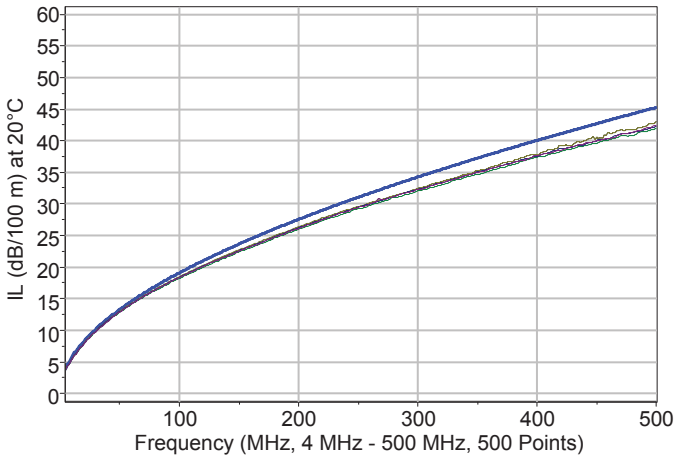
Temperature range	fixed		-20°C ...+60°C
	flexing		0°C ...+50°C
Bending radius			
	fixed	min.	4 x D
	flexing	min.	8 x D
Tensile strength		max.	110 N
Crushing strength		min.	1000 N/10 cm
Impact strength		min.	10 impacts
Conductor resistance		max.	75 Ω/km
Resistance imbalance		max.	2%
Insulation resistance		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

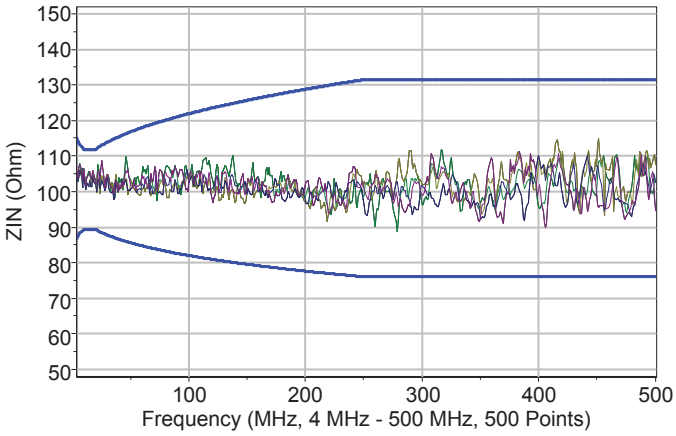
Specifications may vary depending on technical modifications.

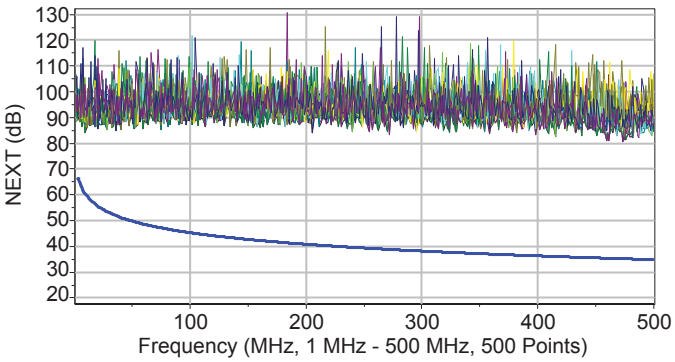
Systhames Networking

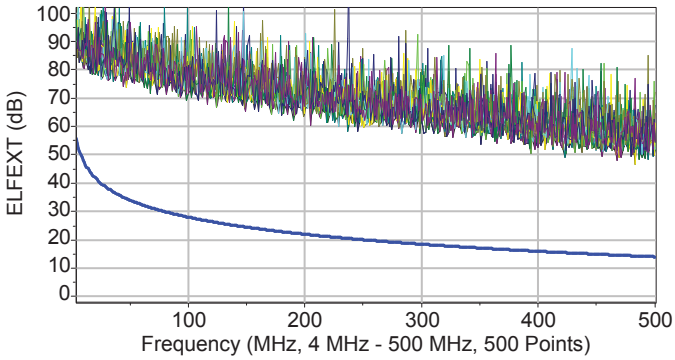
Frequency [MHz]	Attenuation [dB/100 m] typ.max.		NEXT [dB] typ.max.		PS-NEXT [dB] typ.max.		ACR [dB/100 m] typ.max.		PS-ACR [dB/100 m] typ.max.		ACR-F [dB/100 m] typ.max.		PS-ACR-F [dB/100 m] typ.max.		RL [dB] typ.max.	
1	1.9	2.1	95	75.3	92	72.3	93	73.2	90	70.2	100	68	97	65	26	20
4	3.5	3.8	95	66.3	92	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









Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]	Sheath colour	Packaging [m]
506047	SYS500 F/F23 LSZH Cat 6A F/FTP 4x2x23AWG SL500	7.0	21	51	Blue (RAL 5015)	500/1000
506081	F/F23 LSZH Cat 6A F/FTP 4x2x23AWG SL500 F/F23	7.0	21	51	Orange (RAL 2003)	500/1000
506083	LSZH Cat 6A F/FTP 4x2x23AWG SL500 F/F23 LSZH	7.0	21	51	Green (RAL 6018)	500/1000
506084	Cat 6A F/FTP 4x2x23AWG SL500 F/F23 LSZH Cat	7.0	21	51	Grey (RAL 7035)	500/1000
506085	6A F/FTP 4x2x23AWG SL500 F/F23Dx LSZH Cat 6A	7.0	21	51	Yellow (RAL 1018)	500/1000
506065	F/FTP 2x(4x2x23AWG) SL500 F/F23 PVC Cat 6A F/	7.0x14.0	42	102	Blue (RAL 5015)	500
506041	FTP 4x2x23AWG SL500 F/F23 PE Cat 6A F/FTP	7.0	21	50	Grey (RAL 7001)	500/1000
506053	4x2x23AWG	7.0	21	45	Black (RAL 9011)	500/1000

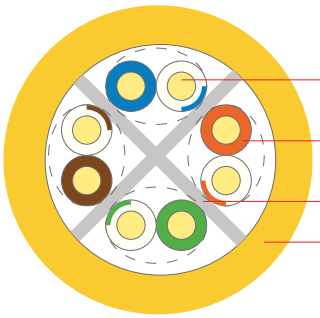
Specifications may vary depending on technical modifications.

Systhames Networking

SYS400 U23
Category 6 U/UTP

Data Cables

Cable structure



Electrolytic copper wire, Ø 23AWG

HDPE, in compliance with TIA 568 insulation colour coding
80°C, EN 50290-2-23

PE

LSZH/LS0H - RAL 1018 Yellow, Ø 6.0 mm
70°C, EN 50290-2-27
PVC - RAL 7001 Grey, Ø 6.0 mm
TM51 70°C, EN 50290-2-22
PE - RAL 9011 Black, Ø 6.0 mm
80°C, EN 50290-2-24

Application

This data cable range is designed for analogue and digital signal transmission 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-PVC)
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

Specifications

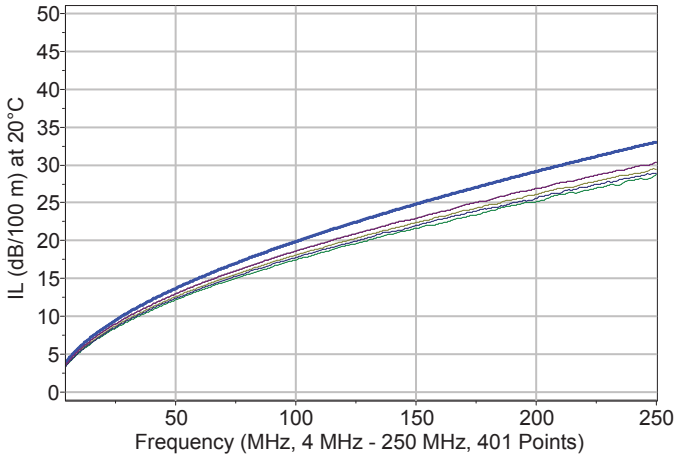
Temperature range	fixed		-20°C ...+60°C
	flexing		0°C ...+50°C
Bending radius			
	fixed	min.	4 x D
	flexing	min.	8 x D
Tensile strength		max.	100 N
Crushing strength		min.	1000 N/10 cm
Impact strength		min.	10 impacts
Conductor resistance		max.	85 Ω/km
Resistance imbalance		max.	2%
Insulation resistance		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 III"
Segregation class			"b" EN 50174-2

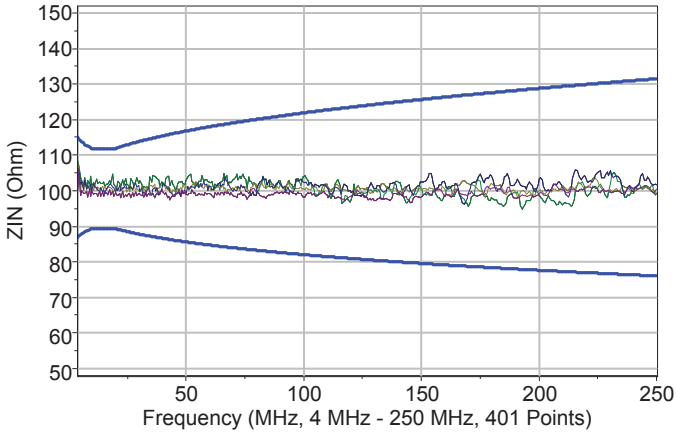
Specifications may vary depending on technical modifications.

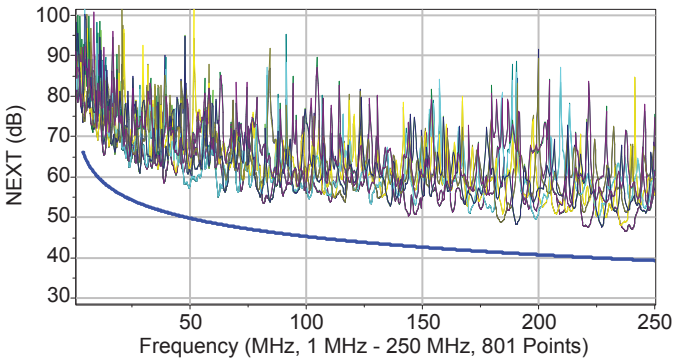
Systhames Networking

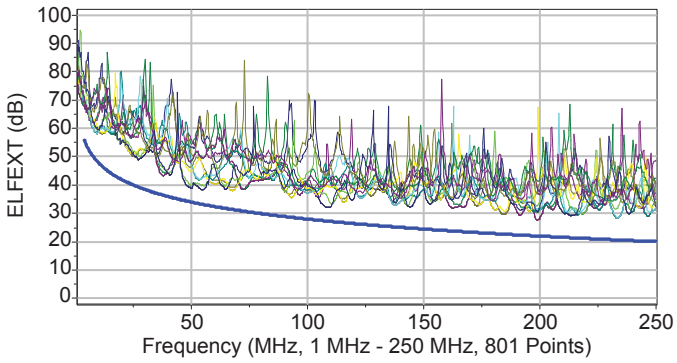
Frequency [MHz]	Attenuation [dB/100 m] typ.max.		NEXT [dB] typ.max.		PS-NEXT [dB] typ.max.		ACR [dB/100 m] typ.max.		PS-ACR [dB/100 m] typ.max.		ACR-F [dB/100 m] typ.max.		PS-ACR-F [dB/100 m] typ.max.		RL [dB] typ.max.	
1	1.9	2.1	82	66	79	64	80	63.9	77	61.9	85	66	82	64	26	20
4	3.8	3.8	76	65.3	73	63.3	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 50288-6-1









Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]	Sheath colour	Packaging [m]
506022	SYS400 U23 LSZH Cat 6 U/UTP 4x2x23AWG SL400	6.0	18	40	Yellow (RAL 1018)	Yellow (RAL 1018)
506076	U23 LSZH Cat 6 U/UTP 4x2x23AWG SL400 U23	6.0	18	40	Orange (RAL 2003)	Orange (RAL 2003)
506077	LSZH Cat 6 U/UTP 4x2x23AWG SL400 U23 LSZH	6.0	18	40	Blue (RAL 5015)	Blue (RAL 5015)
506075	Cat 6 U/UTP 4x2x23AWG SL400 U23 LSZH Cat	6.0	18	40	Grey (RAL 7001)	Grey (RAL 7001)
506082	6 U/UTP 4x2x23AWG SL400 U23Dx LSZH Cat 6	6.0	18	40	Green (RAL 6018)	Green (RAL 6018)
506031	U/UTP 2x(4x2x23AWG) SL400 U23 PVC Cat 6	6.0x12.0	36	80	Yellow (RAL 1018)	Yellow (RAL 1018)
506019	U/UTP 4x2x23AWG SL400 U23 PVC Cat 6 U/	6.0	18	39	Grey (RAL 7001)	Grey (RAL 7001)
506126	UTP 4x2x23AWG SL400 U23 PE Cat 6 U/UTP	6.0	18	39	Blue (RAL 5024)	Blue (RAL 5024)
506025	4x2x23AWG	6.0	18	35	Black (RAL 9011)	Black (RAL 9011)

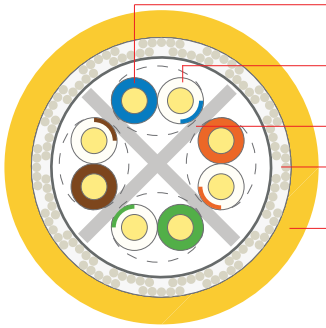
Specifications may vary depending on technical modifications.

Systhames Networking

SYS400 SF/U23

Category 6 SF/UTP

Cable structure



Conductor	Electrolytic copper wire, Ø 23AWG
Insulation	HDPE, in compliance with TIA 568 insulation colour coding 80°C, EN 50290-2-23
Cross separator	PE
Screen	Al-Pet foil min. 100% coverage Tinned braided copper wire, 50% coverage
Sheath	LSZH/LS0H - RAL 1018 Yellow, Ø 7.6 mm 70°C, EN 50290-2-27 PVC - RAL 7001 Grey, Ø 7.6 mm TM51 70°C, EN 50290-2-22 PE - RAL 9011 Black, Ø 7.6 mm 80°C, EN 50290-2-24

Application

This data cable range is designed for analogue and digital signal transmission 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 50288-5-1
ANSI EIA/TIA 568-C.2

Fire performance

Vertical flame propagation	EN 60332-1-2 (LSZH-PVC)
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

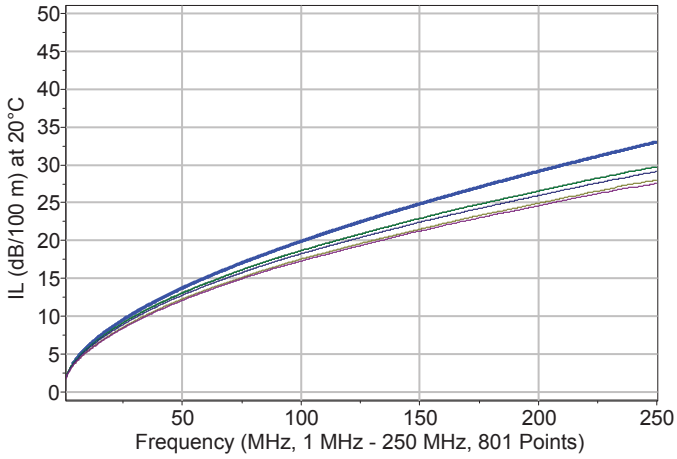
Specifications

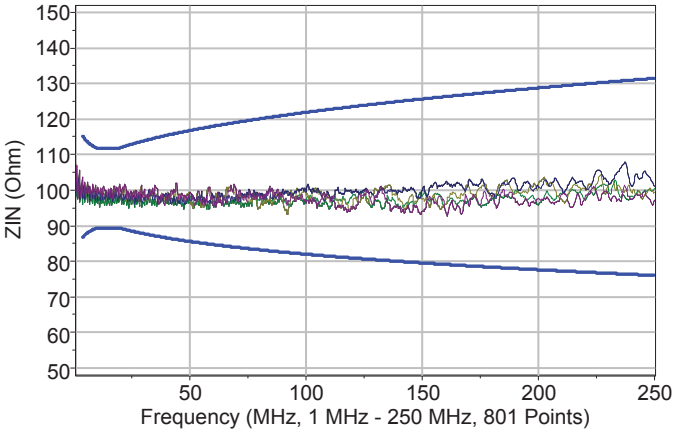
Temperature range	fixed		-20°C ...+60°C
	flexing		0°C ...+50°C
Bending radius			
	fixed	min.	4 x D
	flexing	min.	8 x D
Tensile strength		max.	100 N
Crushing strength		min.	1000 N/10 cm
Impact strength		min.	10 impacts
Conductor resistance		max.	85 Ω/km
Resistance imbalance		max.	2%
Insulation resistance		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 Ib"
Transfer impedance			"Class 2"
Segregation class			"c" EN 50174-2

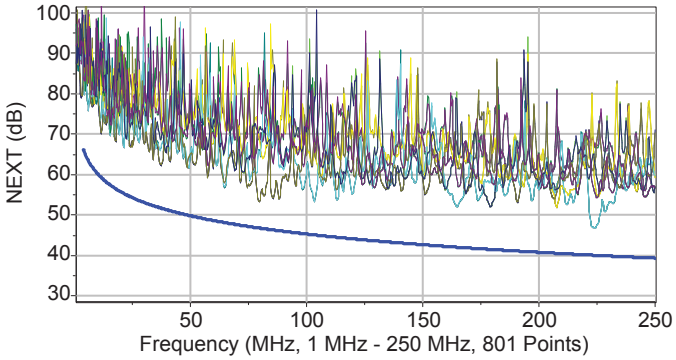
Systhames Networking

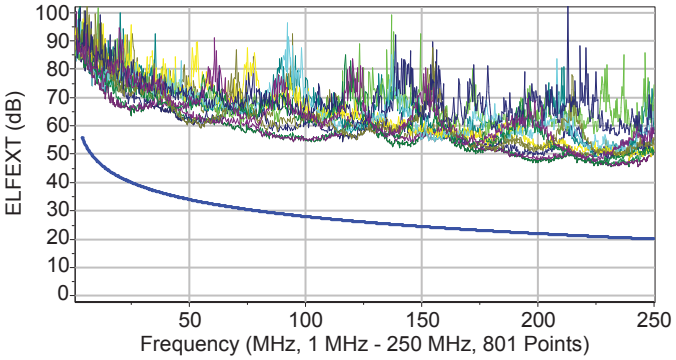
Frequency [MHz]	Attenuation [dB/100 m] typ.	max.	NEXT [dB] typ.	max.	PS-NEXT [dB] typ.	max.	ACR [dB/100 m] typ.	max.	PS-ACR [dB/100 m] typ.	max.	ACR-F [dB/100 m] typ.	max.	PS-ACR-F [dB/100 m] typ.	max.	RL [dB] typ.	max.
1	1.9	2.1	82	66	79	64	80	63.9	77	61.9	85	66	82	64	26	20
4	3.8	3.8	76	65.3	73	63.3	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









Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]	Sheath colour	Packaging [m]
506024	SYS400 SF/U23 LSZH Cat 6 SF/UTP 4x2x23AWG	7.6	28	65	Yellow (RAL 1018)	500/1000
506092	SYS400 SF/U23 LSZH Cat 6 SF/UTP 4x2x23AWG	7.6	28	65	Blue (RAL 5015)	500/1000
506021	SYS400 SF/U23 PVC Cat 6 SF/UTP 4x2x23AWG	7.6	28	64	Grey (RAL 7001)	500/1000
506027	SYS400 SF/U23 PE Cat 6 SF/UTP 4x2x23AWG	7.6	28	57	Black (RAL 9011)	500/1000

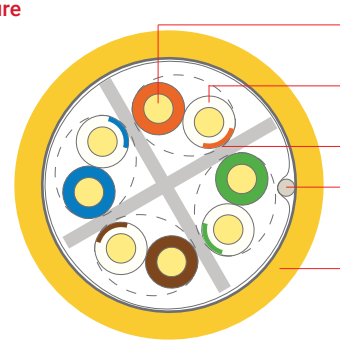
Specifications may vary depending on technical modifications.

Systhames Networking

SYS400 F/U23
Category 6 F/UTP

Data Cables

Cable structure



Electrolytic copper wire, Ø 23AWG

HDPE, in compliance with TIA 568 insulation colour coding
80°C, EN 50290-2-23

PE

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

LSZH/LS0H - RAL 1018 Yellow, Ø 7.2 mm
70°C, EN 50290-2-27
PVC - RAL 7001 Grey, Ø 7.2 mm
TM51 70°C, EN 50290-2-22
PE - RAL 9011 Black, Ø 7.2 mm
80°C, EN 50290-2-24

Application

This data cable range is designed for analogue and digital signal transmission 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 50288-5-1
ANSI EIA/TIA 568-C.2

Fire performance

Vertical flame propagation	EN 60332-1-2 (LSZH-PVC)
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

Specifications

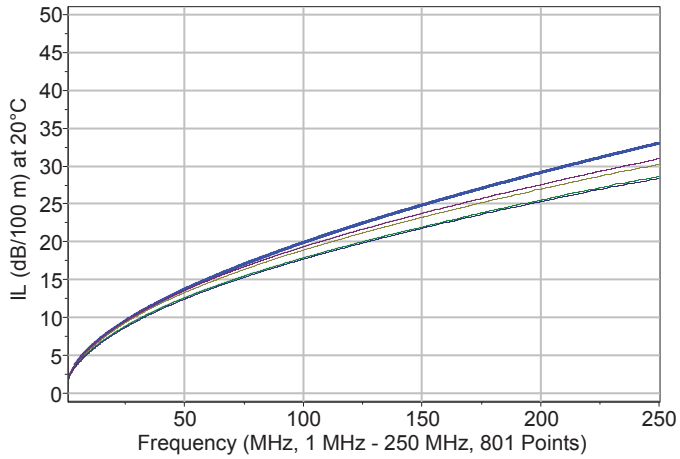
Temperature range	fixed		-20°C ...+60°C
	flexing		0°C ...+50°C
Bending radius			
	fixed	min.	4 x D
	flexing	min.	8 x D
Tensile strength		max.	100 N
Crushing strength		min.	1000 N/10 cm
Impact strength		min.	10 impacts
Conductor resistance		max.	85 Ω/km
Resistance imbalance		max.	2%
Insulation resistance		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"
Transfer impedance			"Class 2"
Segregation class			"c" EN 50174-2

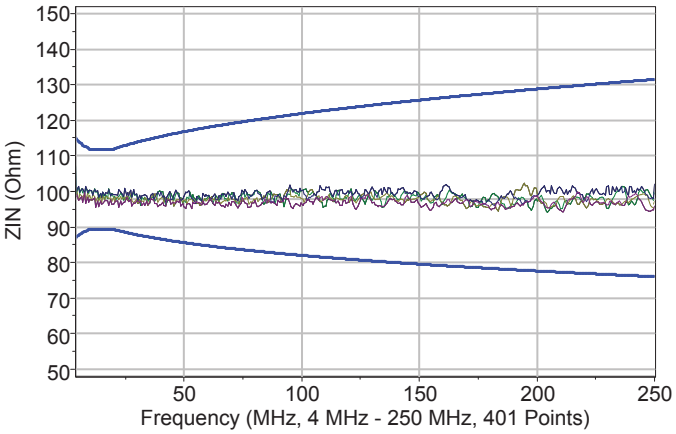
Specifications may vary depending on technical modifications.

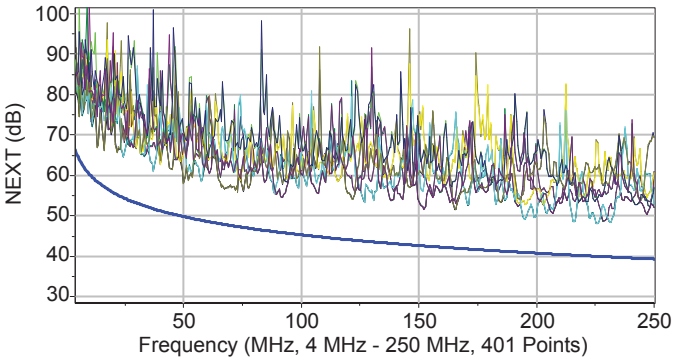
Systhames Networking

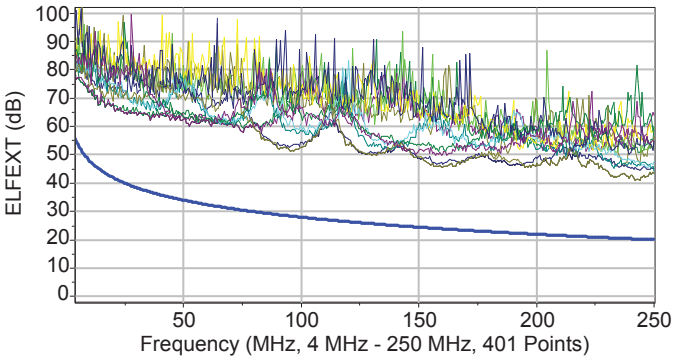
Frequency [MHz]	Attenuation [dB/100 m] typ.max.		NEXT [dB] typ.max.		PS-NEXT [dB] typ.max.		ACR [dB/100 m] typ.max.		PS-ACR [dB/100 m] typ.max.		ACR-F [dB/100 m] typ.max.		PS-ACR-F [dB/100 m] typ.max.		RL [dB] typ.max.	
1	1.9	2.1	82	66	79	64	80	63.9	77	61.9	85	66	82	64	26	20
4	3.8	3.8	76	65.3	73	63.3	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









Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]	Sheath colour	Packaging [m]
506023	SYS400 F/U23 LSZH Cat 6 F/UTP 4x2x23AWG SL400	7.2	20	55	Yellow (RAL 1018)	500/1000
506079	F/U23 LSZH Cat 6 F/UTP 4x2x23AWG SL400 F/U23	7.2	20	55	Orange (RAL 2003)	500/1000
506093	LSZH Cat 6 F/UTP 4x2x23AWG SL400 F/U23Dx	7.2	20	55	Blue (RAL 5015)	500/1000
506032	LSZH Cat 6 F/UTP 2x(4x2x23AWG) SL400 F/U23	7.2x14.4	40	110	Yellow (RAL 1018)	500
506020	PVC Cat 6 F/UTP 4x2x23AWG SL400 F/U23 PE Cat	7.2	20	54	Grey (RAL 7001)	500/1000
506026	6 F/UTP 4x2x23AWG	7.2	20	46	Black (RAL 9011)	500/1000

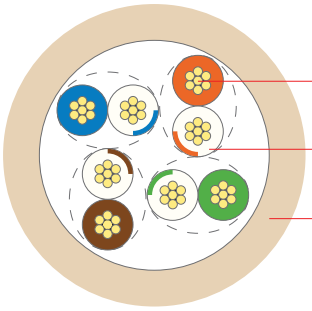
Specifications may vary depending on technical modifications.

Systhames Networking

SYS200 U26/7
Category 5e U/UTP

Data Cables

Cable structure



Stranded electrolytic copper wire, Ø 26/7AWG

HDPE, in compliance with TIA 568 insulation colour coding
80°C, EN 50290-2-23

LSZH/LS0H - RAL 1015 Cream, Ø 5.0 mm
70°C, EN 50290-2-27
PVC - RAL 7001 Grey, Ø 5.0 mm
TM52 70°C, EN 50290-2-22

Application

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-PVC)
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

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.	60 N
Crushing strength		min.	1000 N/10 cm
Impact strength		min.	10 impacts
Conductor resistance		max.	150 Ω/km
Resistance imbalance		max.	3%
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

Specifications may vary depending on technical modifications.

Systhames Networking

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	0.28	0.32	71	65.3	68	62.3	71	65.0	68	62	82	63.8	79	60.8	22	20
4	0.48	0.60	62	56.3	59	53.3	62	55.7	59	52.7	70	51.8	67	48.8	30	23
10	0.85	0.95	56	50.3	53	47.3	55	49.3	52	46.3	55	43.8	52	40.8	28	25
16	1.08	1.21	54	47.2	51	44.2	53	46.0	50	43	48	39.7	45	36.7	27	25
31.25	1.55	1.71	50	42.9	47	39.9	48	41.2	45	38.2	40	33.9	37	30.9	25	23.6
62.50	2.20	2.48	45	38.4	42	35.4	43	35.9	40	32.9	37	27.9	34	24.9	24	21.5
100	2.95	3.2	42	35.3	39	32.3	39	32.1	36	29.1	30	23.8	27	20.8	23	20.1
200	4.10	-	36	-	33	-	32	-	29	-	22	-	19	-	22	-

IEC 61156-5, EN 50288-3-1

Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]	Sheath colour	Packaging [m]
505052	SYS00 U26/7 LSZH Cat 5e U/UTP 4x2x26/7AWG	5.0	10	25	Cream (RAL 1015)	305/500/1000
505049	SYS200 U26/7 PVC Cat 5e U/UTP 4x2x26/7AWG	5.0	10	25	Grey (RAL 7001)	305/500/1000

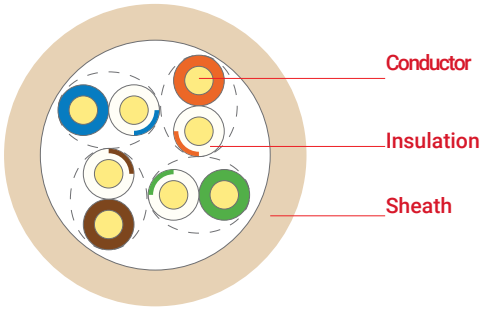
Specifications may vary depending on technical modifications.

Systhames Networking

SYS200 U24
Category 5e U/UTP

Data Cables

Cable structure



Electrolytic copper wire, Ø 24AWG

HDPE, in compliance with TIA 568 insulation colour coding
80°C, EN 50290-2-23

LSZH/LS0H - RAL 1015 Cream, Ø 5.0 mm
70°C, EN 50290-2-27
PVC - RAL 7001 Grey, Ø 5.0 mm
TM51 70°C, EN 50290-2-22
PE - RAL 9011 Black, Ø 5.0 mm
80°C, EN 50290-2-24

Application

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-PVC)
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

Specifications

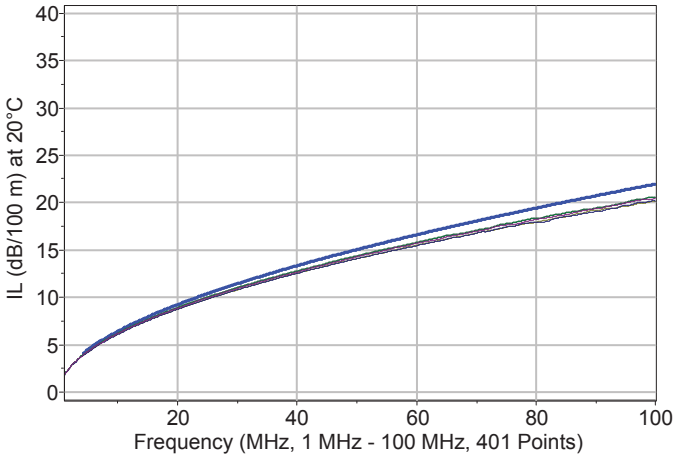
Temperature range	fixed		-20°C ...+60°C
	flexing		0°C ...+50°C
Bending radius	fixed	min.	4 x D
	flexing	min.	8 x D
Tensile strength		max.	85 N
Crushing strength		min.	1000 N/10 cm
Impact strength		min.	10 impacts
Conductor resistance		max.	95 Ω/km
Resistance imbalance		max.	2%
Insulation resistance		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

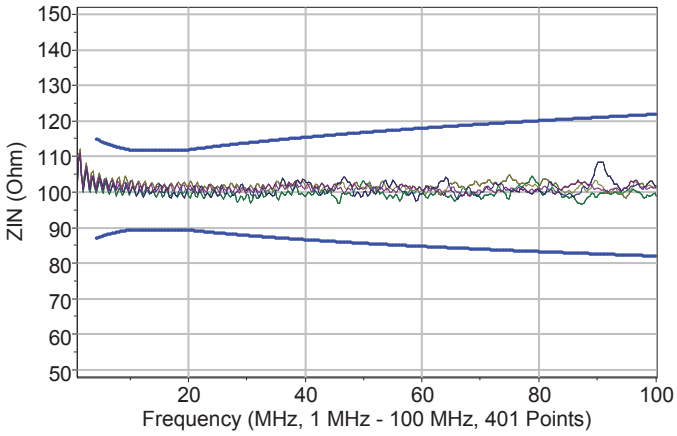
Specifications may vary depending on technical modifications.

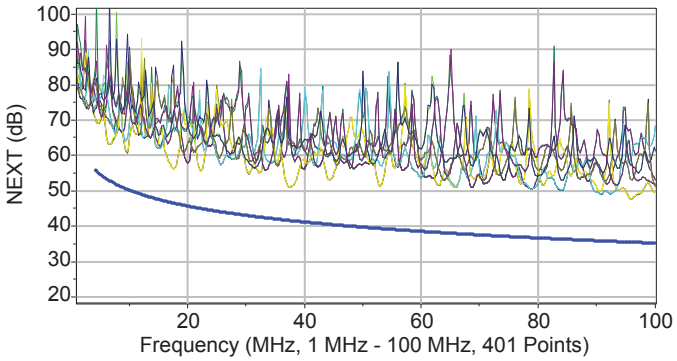
Systhames Networking

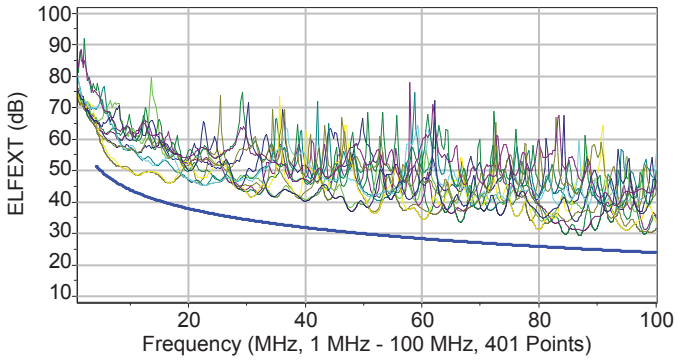
Frequency [MHz]	Attenuation [dB/100 m] typ.	max.	NEXT [dB] typ.	max.	PS-NEXT [dB] typ.	max.	ACR [dB/100 m] typ.	max.	PS-ACR [dB/100 m] typ.	max.	ACR-F [dB/100 m] typ.	max.	PS-ACR-F [dB/100 m] typ.	max.	RL [dB] typ.	max.
1	1.9	2 . 1	71	65.3	68	62.3	69	63.2	66	60.2	82	63.8	79	60.8	23	20
4	3.6	4	62	56.3	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









Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]	Sheath colour	Packaging [m]
505004	SYS200 U24 LSZH Cat 5e U/UTP 4x2x24AWG	5.0	15	30	Cream (RAL 1015)	305/500/1000
505026	SYS200 U24 LSZH Cat 5e U/UTP 4x2x24AWG	5.0	15	30	Blue (RAL 5015)	305/500/1000
505001	SYS200 U24 PVC Cat 5e U/UTP 4x2x24AW	5.0	15	30	Grey (RAL 7001)	305/500/1000
505007	SYS200 U24 PE Cat 5e U/UTP 4x2x24AWG	5.0	15	26	Black (RAL 9011)	500/1000

Specifications may vary depending on technical modifications.

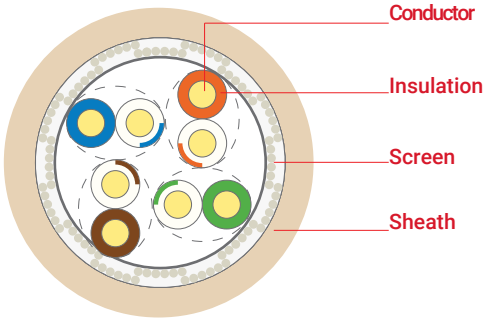
Systhames Networking

SYS200 SF/U24

Category 5e SF/UTP

Data Cables

Cable structure



Electrolytic copper wire, Ø 24AWG

HDPE, in compliance with TIA 568 insulation colour coding
80°C, EN 50290-2-23

Al-Pet foil min. 100% coverage
Tinned braided copper wire, 50% coverage

LSZH/LS0H - RAL 1015 Cream, Ø 6.4 mm
70°C, EN 50290-2-27
PVC - RAL 7001 Grey, Ø 6.4 mm
TM51 70°C, EN 50290-2-22
PE - RAL 9011 Black, Ø 6.4 mm
80°C, EN 50290-2-24

Application

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 50288-2-1
ANSI EIA/TIA 568-C.2

Fire performance

Vertical flame propagation	EN 60332-1-2 (LSZH-PVC)
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

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.	90 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 Ib"
Transfer impedance			"Class 2"
Segregation class			"c" EN 50174-2

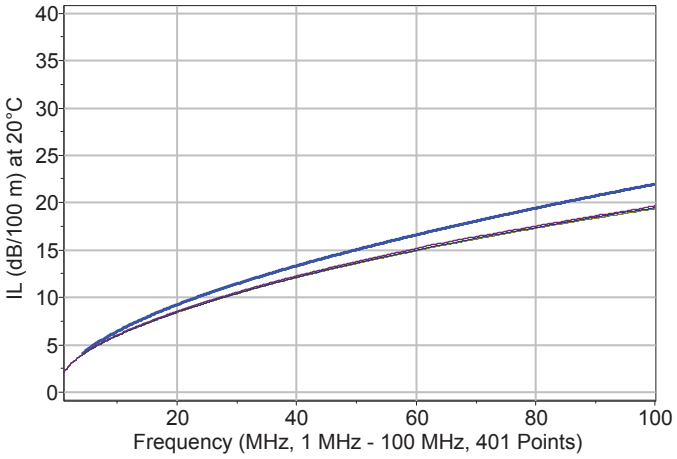
Specifications may vary depending on technical modifications.

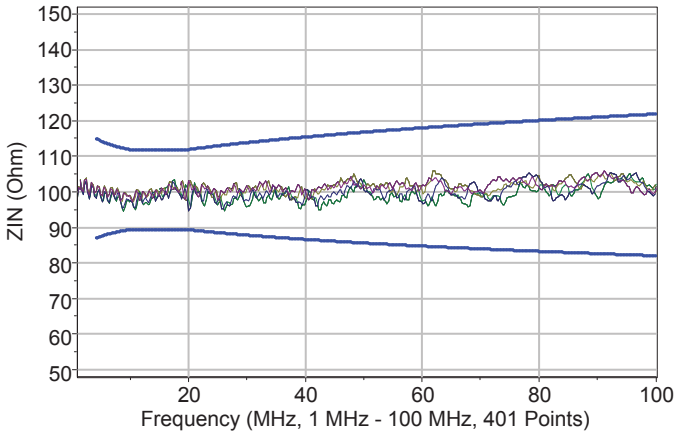
Systhames Networking

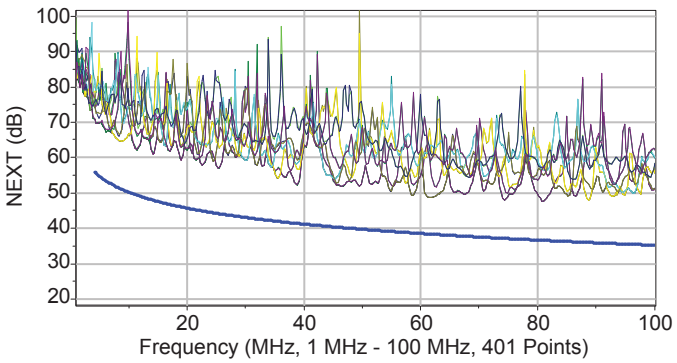
Transmission characteristics @ 20°C

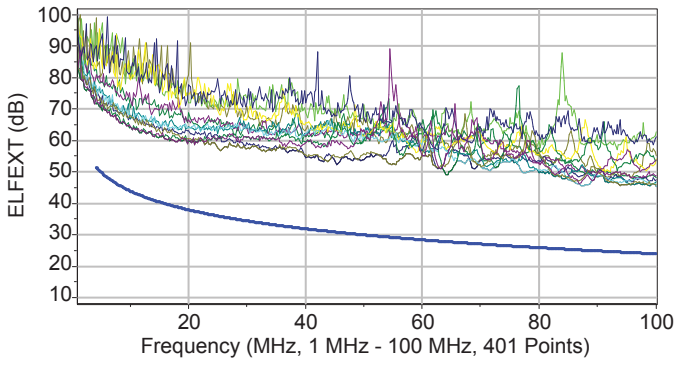
Frequency [MHz]	Attenuation [dB/100 m] typ.	max.	NEXT [dB] typ.	max.	PS-NEXT [dB] typ.	max.	ACR [dB/100 m] typ.	max.	PS-ACR [dB/100 m] typ.	max.	ACR-F [dB/100 m] typ.	max.	PS-ACR-F [dB/100 m] typ.	max.	RL [dB] typ.	max.
1	1.9	2 . 1	71	65.3	68	62.3	69	63.2	66	60.2	82	63.8	79	60.8	23	20
4	3.6	4	62	56.3	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









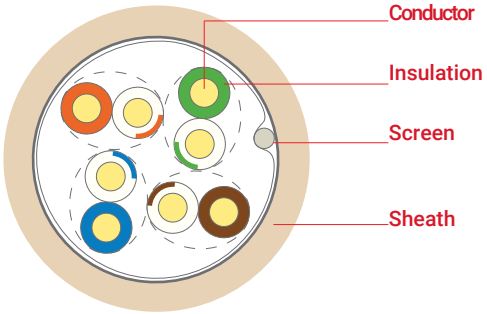
Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]	Sheath colour	Packaging [m]
505006	SYS200 SF/U24 LSZH Cat 5e SF/UTP 4x2x24AWG	6.4	17	42	Cream (RAL 1015)	500/1000
505003	SYS200 SF/U24 PVC Cat 5e SF/UTP 4x2x24AWG	6.4	17	42	Grey (RAL 7001)	500/1000
505009	SYS200 SF/U24 PE Cat 5e SF/UTP 4x2x24AWG	6.4	17	35	Black (RAL 9011)	500/1000

Specifications may vary depending on technical modifications.

SYS200 F/U24
Category 5e F/UTP

Data Cables

Cable structure



Electrolytic copper wire, Ø 24AWG

HDPE, in compliance with TIA 568 insulation colour coding
80°C, EN 50290-2-23

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

LSZH/LS0H - RAL 1015 Cream, Ø 6.0 mm
70°C, EN 50290-2-27
PVC - RAL 7001 Grey, Ø 6.0 mm
TM51 70°C, EN 50290-2-22
PE - RAL 9011 Black, Ø 6.0 mm
80°C, EN 50290-2-24

Application

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 50288-2-1
ANSI EIA/TIA 568-C.2

Fire performance

Vertical flame propagation	EN 60332-1-2 (LSZH-PVC)
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

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.	90 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 II"
Transfer impedance			"Class 2"
Segregation class			"c" EN 50174-2

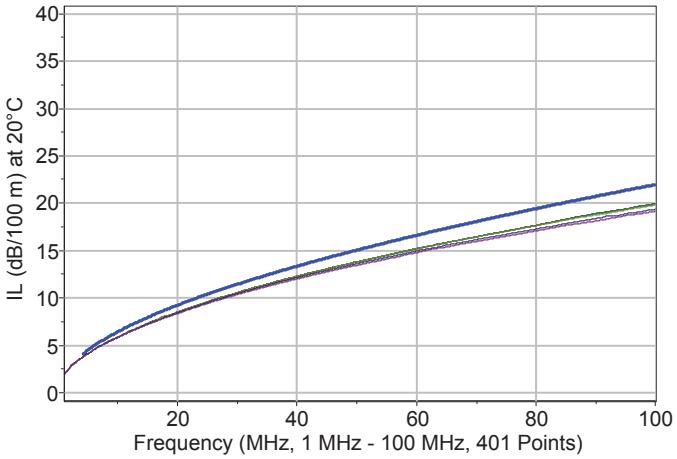
Specifications may vary depending on technical modifications.

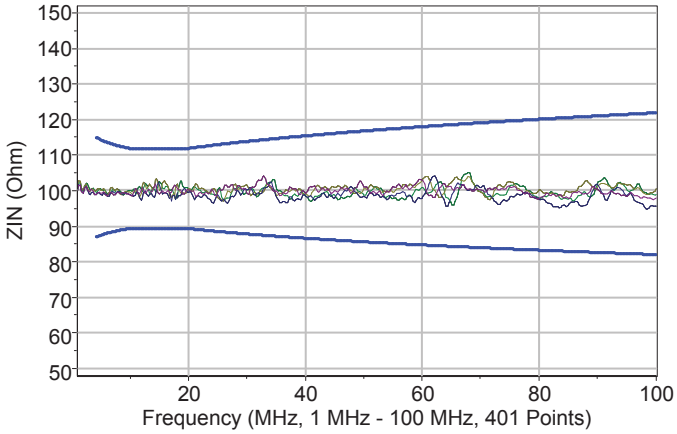
Systhames Networking

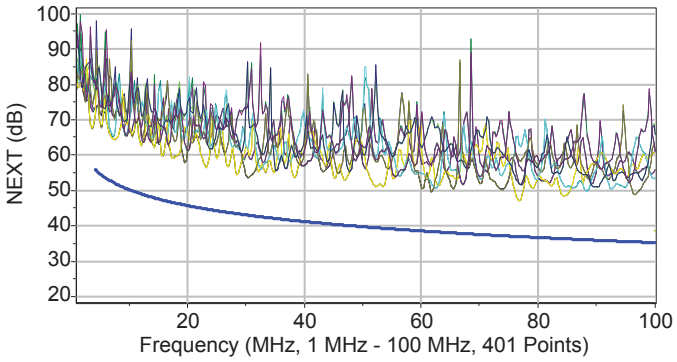
Transmission characteristics @ 20°C

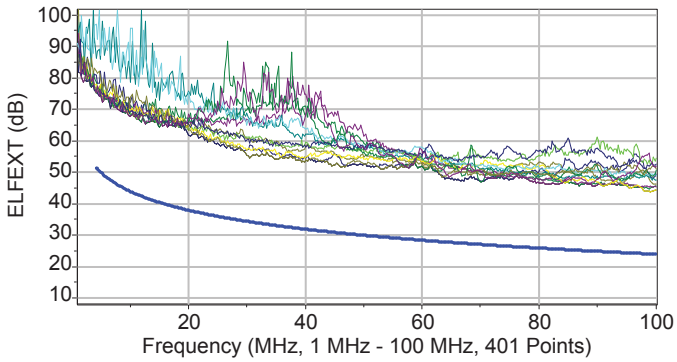
Frequency [MHz]	Attenuation [dB/100 m] typ.	max.	NEXT [dB] typ.	max.	PS-NEXT [dB] typ.	max.	ACR [dB/100 m] typ.	max.	PS-ACR [dB/100 m] typ.	max.	ACR-F [dB/100 m] typ.	max.	PS-ACR-F [dB/100 m] typ.	max.	RL [dB] typ.	max.
1	1.9	2 . 1	71	65.3	68	62.3	69	63.2	66	60.2	82	63.8	79	60.8	23	20
4	3.6	4	62	56.3	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









Product code	Cable structure	Diameter [mm]	Cable weight [kg/km]	[kg/km]	Sheath colour	Packaging [m]
505005	SYS200 F/U24 LSZH Cat 5e F/UTP 4x2x24AWG	6.0	17	42	Cream (RAL 1015)	500/1000
505002	SYS200 F/U24 PVC Cat 5e F/UTP 4x2x24AWG	6.0	17	42	Grey (RAL 7001)	500/1000
505008	SYS200 F/U24 PE Cat 5e F/UTP 4x2x24AWG	6.0	17	35	Black (RAL 9011)	500/1000

Specifications may vary depending on technical modifications.

networking

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