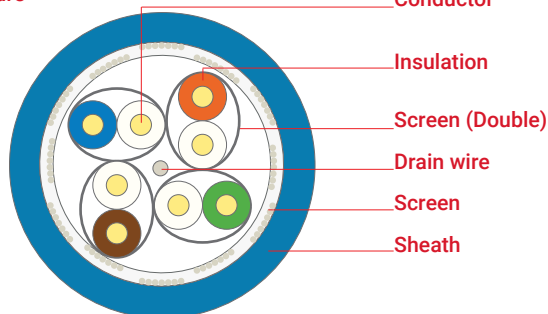




**Cable structure**



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/TIA-568.2-D

**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

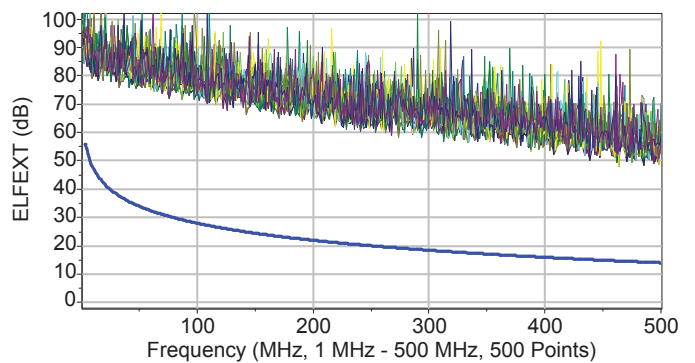
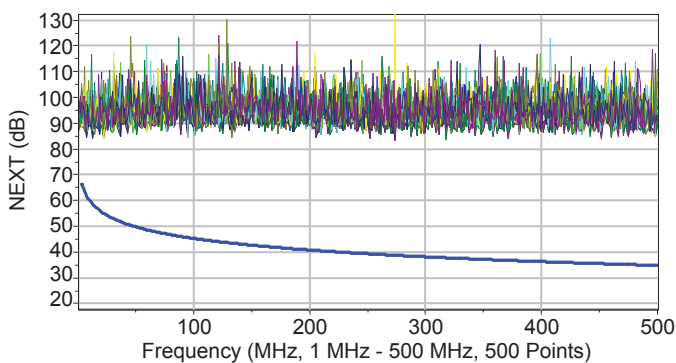
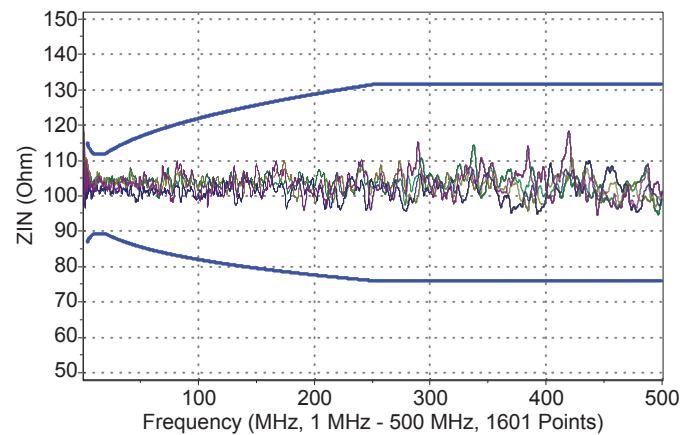
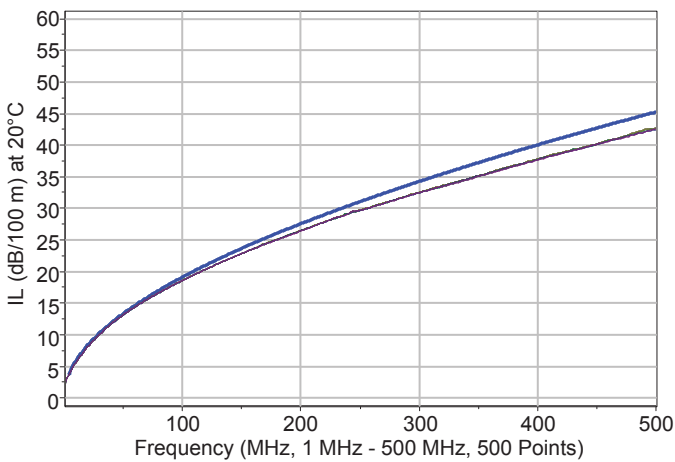
Conductor resistance		max.	75 Ω/km
Resistance imbalance		max.	2%
Insulation resistance		min.	5000 MΩ x m
Capacitance		nom.	42 pF/m
Capacity imbalance		max.	1600 pF/km
Rated impedance			100 ± 5 Ω @100 MHz
Velocity of propagation			78-80%
Propagation delay		max.	430 ns/100 m
Signal delay		max.	25 ns/100 m
Test voltage			1000 V
Operating voltage		max.	72 V

TCL		min.	"Level 2"
Coupling attenuation			"Type 1b"
Transfer impedance			"Class 2"
Segregation class			"c" EN 50174-2

Specifications may vary depending on technical modifications.

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	2	95	75.3	92	72.3	93	73.2	90	70.2	100	6 8	97	6 5	26	20
4	3.6	3.8	95	66.3	92	63.3	91	62.5	88	59.5	100	5 6	97	5 3	27	23
10	5.3	5.9	95	60.3	92	57.3	89	54.4	86	51.4	92	4 8	89	4 5	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	SL500 S/F23 LSZH Cat 6A S/FTP 4x2x23AWG	7.4	28	55	Blue (RAL 5015)	500/1000
506048	SL500 S/F23 PVC Cat 6A S/FTP 4x2x23AWG	7.4	28	54	Grey (RAL 7001)	500/1000
506054	SL500 S/F23 PE Cat 6A S/FTP 4x2x23AWG	7.4	28	48	Black (RAL 9011)	500/1000

Specifications may vary depending on technical modifications.