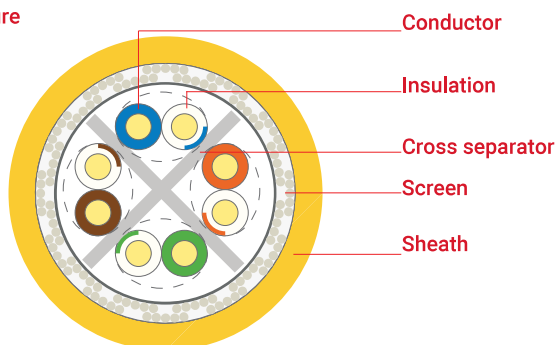




Cable structure



Electrolytic copper wire, Ø 23AWG

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

PE

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

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

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)

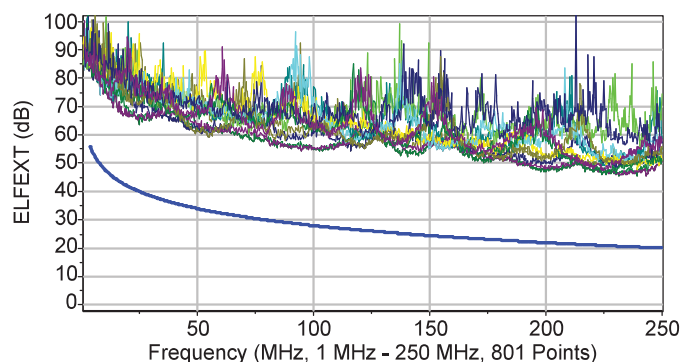
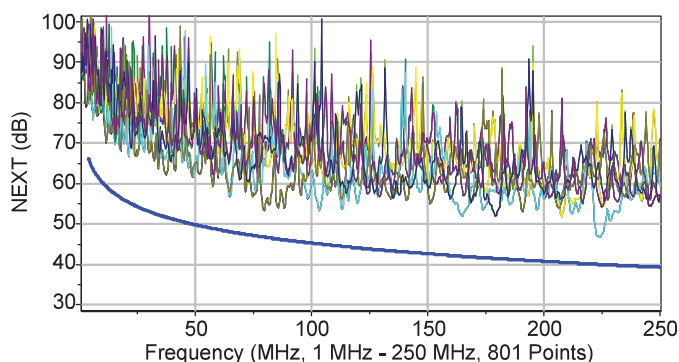
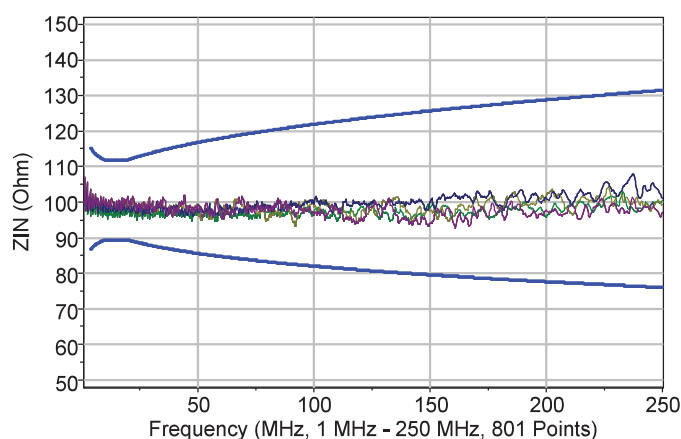
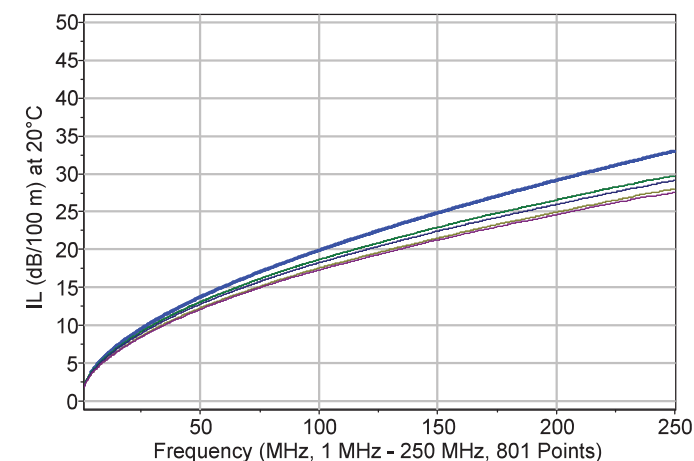
EU declaration of conformity

LVD	Low Voltage Directive	2014/35/EU
RoHS	Restriction of Hazardous Substances	2011/65/EU

Specifications 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	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	17.3
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]	Copperweight [kg/km]	Cable weight [kg/km]	Sheath colour	Packaging [m]
506024	SL400 SF/U23 LSZH Cat 6 SF/UTP 4x2x23AWG	7.6	28	65	 Yellow (RAL 1018)	500/1000
506092	SL400 SF/U23 LSZH Cat 6 SF/UTP 4x2x23AWG	7.6	28	65	 Blue (RAL 5015)	500/1000
506021	SL400 SF/U23 PVC Cat 6 SF/UTP 4x2x23AWG	7.6	28	64	 Grey (RAL 7001)	500/1000
506027	SL400 SF/U23 PE Cat 6 SF/UTP 4x2x23AWG	7.6	28	57	 Black (RAL 9011)	500/1000

Specifications may vary depending on technical modifications.