

SL500 U/F23

Data cable , Category 6_A

U/FTP, Class E_A, 500MHz

4x2xAWG23

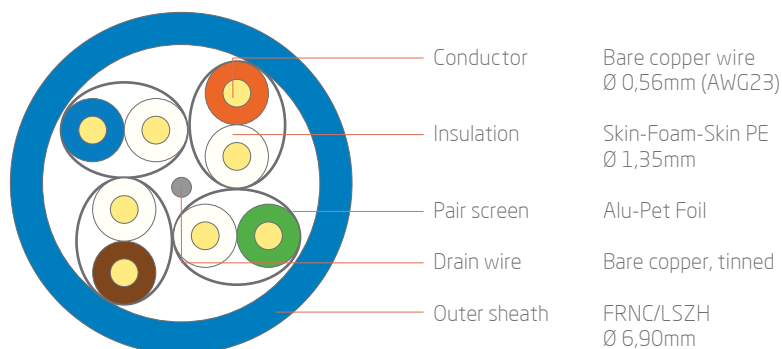


PRODUCT INFORMATION

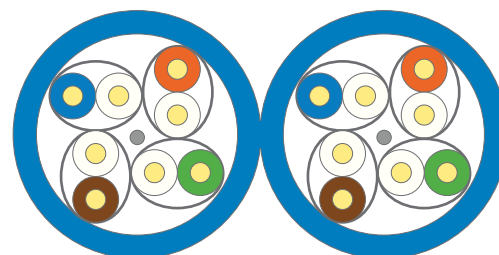
Types
SL500 U/F23 LSZH
SL500 U/F23Dx LSZH

Cable constructions

SL500 U/F23
Simplex construction



SL500 U/F23Dx
Duplex construction



Features and applications

Recber SL500 U/F23 is premium grade Class E_A copper data cable for structured premises cabling systems. They are characterized by large performance reserves and outstanding quality. It has excellent shielding efficiency due to individually screened pairs (PimF).

Suitable for applications up to Class E_A (500MHz), Power over Ethernet (PoE)/PoE+, transmission of digital and analogue signals, video, data, voice, VoIP (Voice over IP), 10GbE acc. to IEEE 802.3.

Standards

- International standard ISO/IEC 11801 2nd ed., IEC 61156-5
- European standard EN 50173-1, EN 50288-10-1

Flame resistancy

- Flame retardancy IEC 60332-1-2
- Halogen free IEC 60754-1/2
- Smoke density IEC 61034-1/2



Low Voltage Directive 2006/95/EC
EC Directive 2011/65/EU

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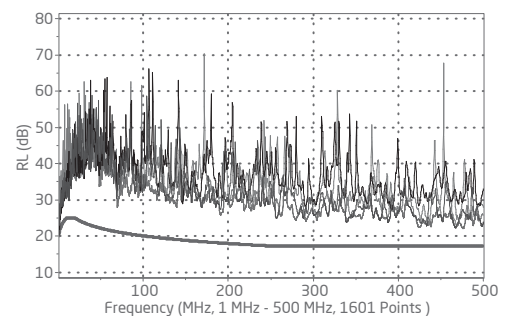
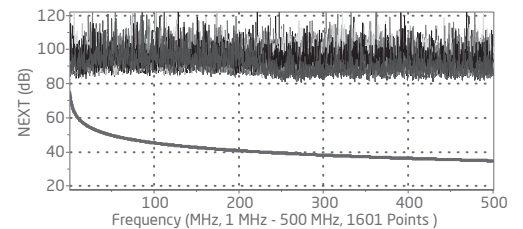
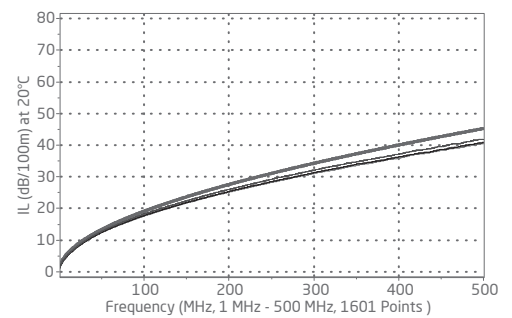
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Electrical characteristics (HF) at 20 °C

Frequency [MHz]	Attenuation [dB/100m]		NEXT [dB]		PS-NEXT [dB]		ACR [dB/100m]		PS-ACR [dB/100m]		ACR-F [dB/100m]		PS-ACR-F [dB/100m]		RL [dB]	
	typ.	max.	typ.	min.	typ.	min.	typ.	min.	typ.	min.	typ.	min.	typ.	min.	typ.	min.
1	1,9	2,1	95	75,3	92	72,3	93	73,2	90	70,2	100	78	97	75	26	20
4	3,5	3,8	95	66,3	92	63,3	91	62,5	88	59,5	100	83,3	97	80,3	27	23
10	5,6	5,9	95	60,3	92	57,3	89	54,4	86	51,4	92	75,3	89	72,3	30	25
16	6,9	7,5	95	57,2	92	54,2	88	49,8	85	46,8	88	71,2	85	68,2	30	25,7
31,25	9,80	10,5	95	52,9	92	49,9	85	42,4	82	39,4	82	65,4	79	62,4	30	23,6
62,50	14,1	15	95	48,4	92	45,4	81	33,4	78	30,4	76	59,4	73	56,4	30	21,5
100	17,7	19,1	95	45,3	92	42,3	77	26,2	74	23,2	72	55,3	69	52,3	30	20,1
250	29,5	31,1	85	39,3	82	36,3	55	8,3	52	5,3	64	47,3	61	44,3	24	17,3
400	38,8	40,1	80	36,3	77	33,3	41	-3,8	38	-6,8	57	43,3	54	40,3	23	15,9
500	43,5	45,3	75	34,8	72	31,8	31	-10,4	28	-13,4	55	41,3	52	38,3	22	15,2

Electrical characteristics (LF) at 20 °C

- DC resistance **max.** 74 Ω/km
- Resistance unbalance **max.** 2 %
- Insulation resistance **min.** 2 G Ω x km
- Mutual capacitance **nom.** 43 pF/m
- Capacitance unbalance **max.** 1500 pF/km
- Characteristic impedance **@ 100MHz** 100 ± 5 Ω
- Transfer impedance **@ 1/10/30MHz** 50/100/200 mΩ/m (Grade 2)
- Coupling attenuation **min.** 55 dB (Type 2)
- Velocity of propagation **approx.** 79 %
- Propagation delay **nom.** 420 ns/100 m
- Skew at 100MHz **nom.** 7 ns/100 m
- Testing voltage **nom.** 1000 V
- Operating voltage **max.** 125 V



Mechanical characteristics

- Bending radius during installation **min.** 8 x D
- Bending radius as installed **min.** 4 x D
- Tensile strength **max.** 100 N (S_x)¹⁾, 200 N (D_x)¹⁾
- Crush resistance **min.** 1000 N/10cm
- Impact strength **min.** 10 impacts
- Temperature range installation **min.** 0 °C to +50 °C
- Temperature range in operation **min.** -20 °C to +60 °C

Part no.	Dimensions	Outer dia. approx.[mm]	Cu content [kg/km]	Cable weight [kg/km]	Fire load [MJ/m] [kWh/m]	Sheath - Color	Packing [m]
506046	4 x 2 x 0,56	6,90	21	52	0,50 0,14	FRNC/LSZH ²⁾ (RAL 5015)	500/1000
506064	2 x (4 x 2 x 0,56)	6,90 x 14,0	42	104	1,00 0,28	FRNC/LSZH ²⁾ (RAL 5015)	1000

¹⁾ S_x= Simplex, D_x= Duplex

²⁾ FRNC/LSZH=Flame Retardant Non Corrosive / Low Smoke Zero Halogen