

SL1200 S/F23

Data cable, Category 7_A

S/FTP, Class F_A, 1000MHz

4x2xAWG23



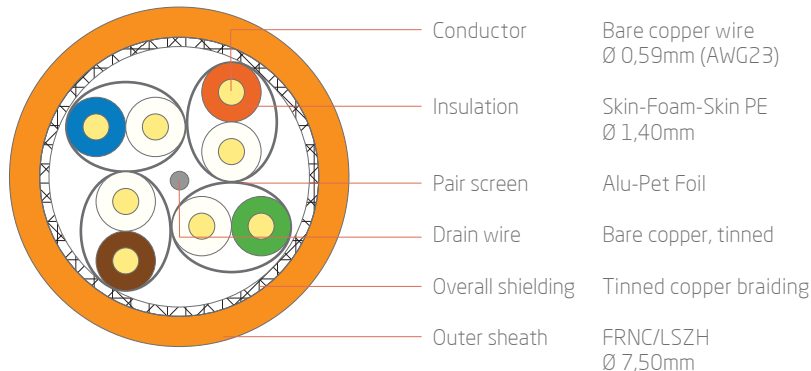
PRODUCT INFORMATION

Types

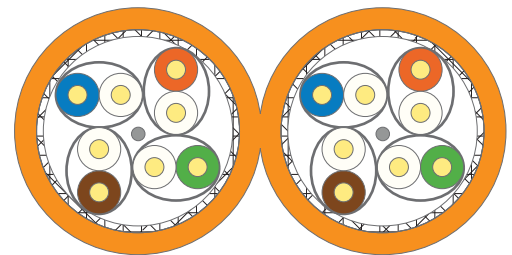
SL1200 S/F23 LSZH
SL1200 S/F23Dx LSZH

Cable constructions

SL1200 S/F23
Simplex construction



SL1200 S/F23Dx
Duplex construction



Features and applications

Recber SL1200 S/F23 is premium grade Class F_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) and overall tinned copper braiding.

Suitable for applications up to Class F_A (1000MHz), 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 50288-9-1

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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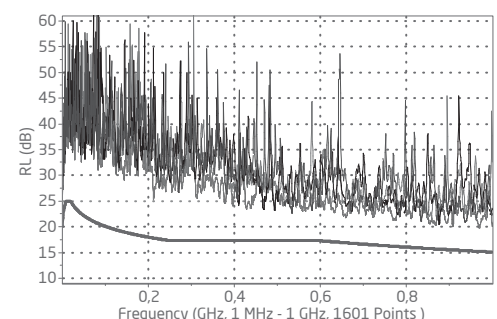
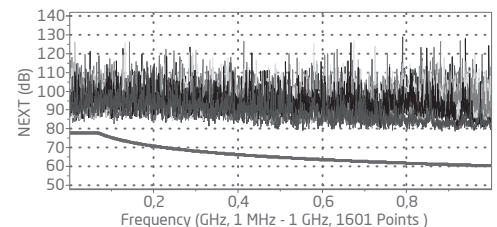
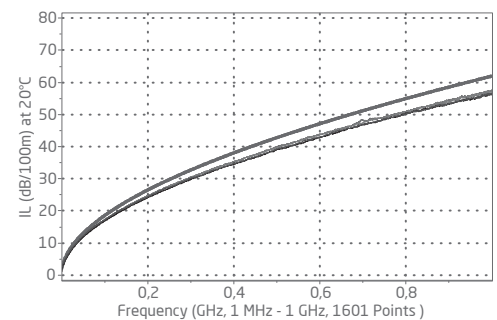
4x2xAWG23

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	104	78	101	75	102	75,9	99	72,9	108	78	105	75	26	20
4	3,5	3,7	104	78	101	75	100	74,3	97	71,3	107	78	104	75	30	23
10	5,4	5,8	104	78	101	75	99	72,2	96	69,2	104	75,3	101	72,3	33	25
100	17,4	18,5	104	75,4	101	72,4	87	56,9	84	53,9	92	55,3	89	52,3	33	20,1
200	24,9	26,5	104	70,9	101	67,9	79	44,4	76	41,4	84	49,3	81	46,3	32	18
250	27,8	29,7	104	69,4	101	66,4	76	39,7	73	36,7	79	47,3	76	44,3	30	17,3
500	40,1	42,8	99	64,9	96	61,9	59	22,2	56	19,2	67	41,3	64	38,3	28	17,3
600	43,8	47,1	93	63,7	90	60,7	50	16,6	47	13,6	60	39,7	57	36,7	25	17,3
862	54,0	57,2	86	61,4	83	58,4	32	4,2	29	1,2	53	36,6	50	33,6	23	15,7
1000	58,0	61,9	84	60,4	81	57,4	26	-1,5	23	-4,5	43	35,3	40	32,3	20	15,1
1200	64	-	82	-	79	-	18	-	15	-	38	-	35	-	19	-

Electrical characteristics (LF) at 20 °C

- DC resistance **max.** 68 Ω/km
- Resistance unbalance **max.** 2 %
- Insulation resistance **min.** 2 G Ω x km
- Mutual capacitance **nom.** 42 pF/m
- Capacitance unbalance **max.** 1500 pF/km
- Characteristic impedance **@ 100MHz** 100 ± 5 Ω
- Transfer impedance **@ 1/10/30MHz** 5/5/10 mΩ/m (Grade 1)
- Coupling attenuation **min.** 85 dB (Type 1)
- Velocity of propagation **approx.** 79 %
- Propagation delay **nom.** 420 ns/100 m
- Skew at 100MHz **nom.** 5 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.** 110 N (Sx)¹⁾, 220 N (Dx)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]
507008	4 x 2 x 0,59	7,50	32	63	0,64 0,18	FRNC/LSZH ²⁾ (RAL 2003)	500/1000
507011	2 x (4 x 2 x 0,59)	7,50 x 15,8	64	126	1,28 0,36	FRNC/LSZH ²⁾ (RAL 2003)	500

¹⁾ Sx= Simplex, Dx= Duplex

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