

CAT 7A SOLID S/FTP LSZH

Datenkabel, Cat 7_A
Data cable, Category 7_A

1000 MHz

4x2xAWG23



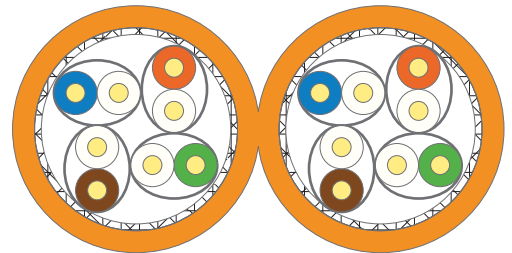
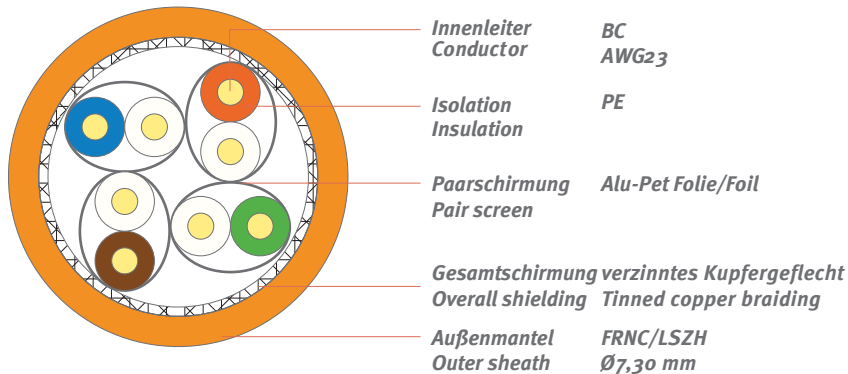
PRODUKTINFORMATIONEN PRODUCT INFORMATION

Types/Typen
CAT 7A SOLID S/FTP LSZH
CAT 7A SOLID S/FTP LSZH DUPLEX

Kabelkonstruktion Cable constructions

CAT 7A SOLID S/FTP LSZH
Simplex

CAT 7A SOLID S/FTP LSZH DUPLEX
Duplex



Funktionen und Anwendungen Features and applications

Passend für Anwendungen bis Klasse F_A.
Suitable for applications up to Class F_A.
(1000 MHz), Power over Ethernet (PoE)/PoE+,
VoIP (Voice over IP), 10 GbE - IEEE 802.3.

Normen Standards

ISO/IEC 11801 2nd ed., IEC 61156-5
EN 50173-1, EN 50288-9-1

Flammenfestigkeit Flame resistance

IEC 60332-1-2
IEC 60754-1/2
IEC 61034-1/2

Längen Lengths

Nr. / No.	Beschreibung / Description
91888	CAT 7A SOLID S/FTP LSZH 100m
91889	CAT 7A SOLID S/FTP LSZH 250m
91890	CAT 7A SOLID S/FTP LSZH 500m
91891	CAT 7A SOLID S/FTP LSZH DUPLEX 100m
91892	CAT 7A SOLID S/FTP LSZH DUPLEX 500m



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

Elektrische Charakteristik (HF) bei 20 °C

Electrical characteristics (HF) at 20 °C

Frequenz Frequency [MHz]	Dämpfung 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	-

Elektrische Charakteristik (LF) bei 20 °C

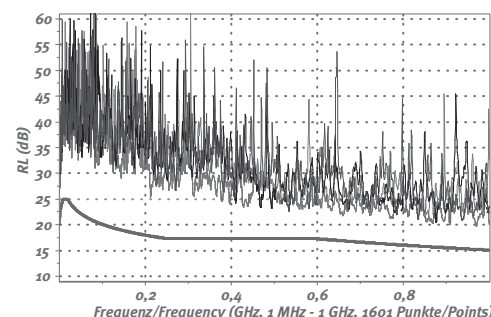
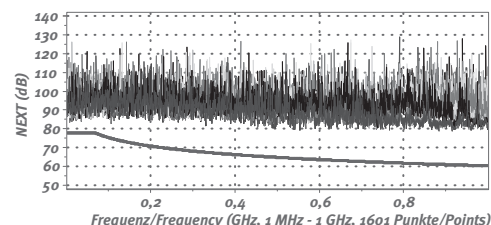
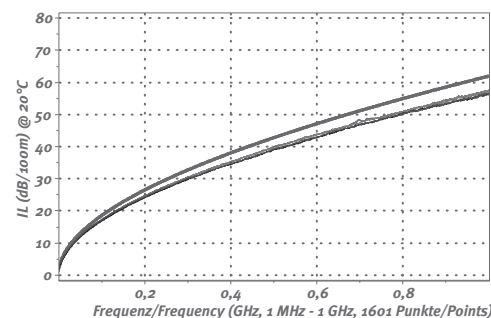
Electrical characteristics (LF) at 20 °C

- DC Widerstand/resistance **max.** 68 Ω/km
- Ungenauigkeit/Inaccuracy **max.** 2 %
- Isolationswiderstand/Insulation resistance **min.** 2 G Ω x km
- Betriebskapazität/Mutual capacitance **nom.** 42 pF/m
- Kapazität/Capacity **max.** 1500 pF/km
- Wellenwiderstand/Characteristic impedance **@ 100 MHz** 100 ± 5 Ω
- Übertragungswiderstand/Transfer impedance **@ 1/10/30 MHz** 5/5/10 mΩ/m (Grade 1)
- Kopplungsdämpfung/Coupling attenuation **min.** 85 dB (Type 1)
- Ausbreitungsgeschwindigkeit/Veloccity of propagation **approx.** 79 %
- Laufzeit/Propagation delay **nom.** 420 ns/100 m
- Verzögerung/Skew @ 100 MHz **nom.** 5 ns/100 m
- Testspannung/Testing voltage **nom.** 1000 V
- Betriebsspannung/Operating voltage **max.** 125 V

Mechanische Charakteristik

Mechanical characteristics

- Biegeradius/Bending radius **min.** 8 x D
- bei Installation/during installation **min.** 4 x D
- installiert/as installed
- Reißfestigkeit/Tensile strength **max.** 110 N (5x), 220 N (Dx)
- Querdruckfestigkeit/Crush resistance **min.** 1000 N/10 cm
- Schlagfestigkeit/Impact strength **min.** 10 impacts
- Temperaturbereich/Temperature range **min.** 0 °C ~ +50 °C
- bei Installation/during installation **min.** -20 °C ~ +60 °C
- in Betrieb/in operation



Beschreibung Description	Maße Dimensions	Außendurchmesser Outer dia. [mm]	Kupferanteil Cu content [kg/km]	Kabelgewicht Cable weight [kg/km]	Brandlast Fire load [MJ/m] [kWh/m]	Mantel - Farbe Sheath - Color	Verpackung Packing [m]
CAT 7A SOLID S/FTP LSZH	4 x 2 x AWG 23	7,50	32	63	0,64 0,18	FRNC/LSZH (RAL 2003)	500/1000
CAT 7A SOLID S/FTP LSZH DUPLEX 2 X	(4 x 2 x AWG 23)	7,50 x 15,8	64	126	1,28 0,36	FRNC/LSZH (RAL 2003)	500