



DATA TRANSMISSION CABLES

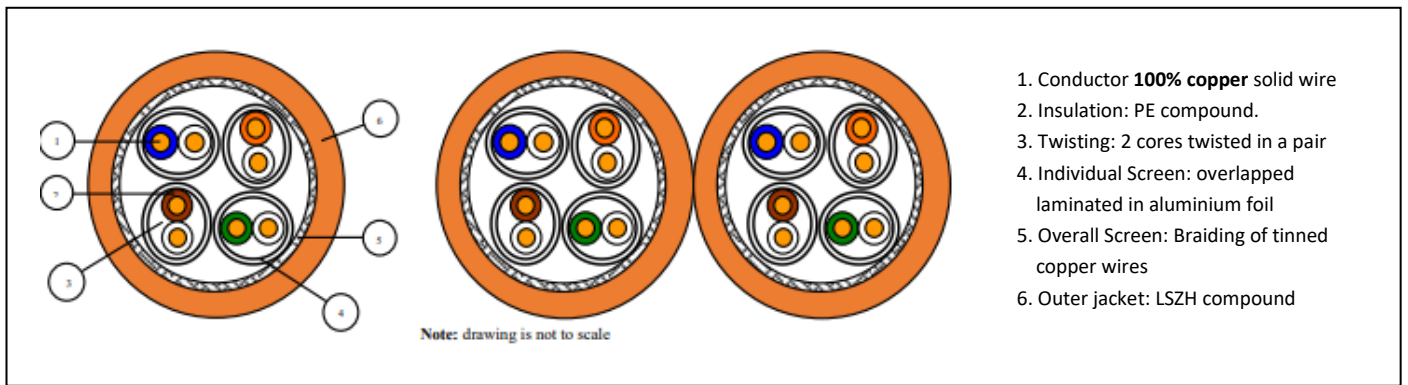
S/FTP cat. 7A (1200MHz) LSZH

4 x 2 x 22 AWG | 2 x (4 x 2 x 22 AWG)

ISO/IEC 11801, EN 50173-1, IEC 61156-5

CABLE DESCRIPTION - APPLICATIONS

Installation cables for structured horizontal cabling. These cables are ideal for LAN data transmission in all Ethernet (IEEE 802.3) applications up to 10GBase-T. The copper braid overall screen offers protection against electromagnetic interference as well as mechanical reinforcement.



1. Conductor **100% copper** solid wire
2. Insulation: PE compound.
3. Twisting: 2 cores twisted in a pair
4. Individual Screen: overlapped laminated in aluminium foil
5. Overall Screen: Braiding of tinned copper wires
6. Outer jacket: LSZH compound

Cable type	Dimensions	Sheath	Standard Sheath Colour ¹	Outer diameter ² (mm)	Cable weight ² (kg/km)
Indoor	4 x 2 x 22 AWG	FR LSZH	Yellow	7.9±0.2	62
Indoor	2x (4 x 2 x 22 AWG)	FR LSZH	Yellow	(7.9 x 16.0)±0.2	128
typical values					

OPERATING CONDITIONS			BASIC ELECTRICAL CHARACTERISTICS (20°C)	
Temperature range	Static	Dynamic	DC Conductor Resistance	≤ 76 Ohm/km
Indoor	-20°C to +60°C	-0°C to +50°C	Insulation Resistance	≥ 5000 MΩ·Km / 500 VDC
Bending radius	Static 4 x D	Dynamic 8 x D	Mutual Capacitance	43 nF/km / 1.0 KHz
Fire behaviour			Capacitance pair to ground	≤ 1500 pF/km / 1.0 KHz
LSZH cable	EC 60332-1-2, IEC 60754-1/2, IEC 61034-1/2		Characteristic Impedance	100 ± 7% Ω / 1-100 MHz; 100 ± 10% Ω / 100-250 MHz 100 ± 15% Ω / 250-600 MHz
CPR	Dca s1 d1 a1			
			Operating Voltage	100 V max.
			Dielectric Strength	1000 Volts / 1 minute DC
			Coupling Attenuation	≥ 80 dB @ 30-1000 MHz ≥ 80 - 20log(f/100) at 100-1200MHz



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BASIC TRANSMISSION CHARACTERISTICS (20°C) (typical values)

Frequency MHz	Attenuation dB/100m		NEXT dB		ELFEXT dB		Return loss dB	
	Cat 7A max.	Typical value	Cat 7A min.	Typical value	Cat 7A min.	Typical Value	Cat 7A min.	Typical value
1	2.0	1.8	78	103	78	101	20.0	-
4	3.7	3.4	78	103	78	101	23.0	29
10	5.9	5.3	78	103	75	96	25.0	35
16	7.4	6.7	78	103	71	91	25.0	35
31.25	10.4	9.5	78	103	65	85	23.6	35
62.5	14.9	13.7	78	103	59	81	21.5	34
100	19.0	17.2	75	102	55	80	20.1	34
200	27.5	24.5	71	100	49	80	18.0	34
300	34.2	30.3	68	96	46	75	17.3	32
600	50.1	43.2	64	92	40	71	17.3	31
900	58.5	53.5	61	90	36	60	15.5	25
1000	61.9	56.8	60	89	35	55	15.1	23
1200*	-	61.3	-	84	-	51	-	21

Frequency range 1-4MHz and >100MHz only for information.

IDENTIFICATION COLOUR CODING

Pair 1		Pair 2		Pair 3		Pair 4	
White	Blue	White	Orange	White	Green	White	Brown

SHEATH MARKING

Simplex: "CABLE S/FTP 4x2xAWG22 Cat7A 1200MHz FR LSZH in accordance with ISO/IEC 11801/EN 50173-1 + IEC61156-5+ IEC 60332-3-24 – Length marking m"

Duplex: "CABLE S/FTP 2x(4x2xAWG22) Cat7A 1200MHz FR LSZH in accordance with ISO/IEC 11801/EN 50173-1 + IEC61156-5+ IEC 60332-3-24 – Length marking m"

PACKING

The cables are delivered on oneway drum of 1000m: Simplex, 500m: Duplex