

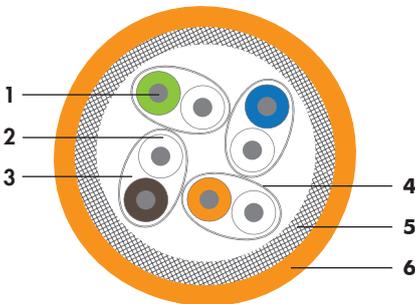


Installation Cable S/FTP Cat.7A, 1000MHz, PrimeLine

LogiLink's Category 7A high end cables are manufactured in Europe in accordance with ISO IEC 61156 requirements. It is the best choice for future proof structured horizontal cabling. These cables are ideal for LAN data transmission in all Ethernet (IEEE 802.3) applications up to 10 GBase-T and higher. The copper braid overall screen offers protection against electromagnetic interference as well as mechanical reinforcement.

Technical Specifications

- Solid Installation Cable Cat.7A 1000 MHz
- 4x2x23AWG bare copper conductor
- 4 individually screened pairs (PIMF)
- Tin plated copper braiding overall screen
- LSFZRH Jacket, orange
- Fire safety class FRNC-C according to IEC 60332-3
- Fast-, Gigabit- & 10 Gigabit Ethernet
- ISO/IEC 11801, EN 50173-1, IEC 61156-5



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

Part no.	Length (m)	Packaging
CQ5100S	100	Reel
CQ5200S	200	Reel
CQ5500S	500	Bobbin
CQ5000S	1000	Bobbin
CQ5100D	100 (Duplex)	Reel
CQ5500D	500 (Duplex)	Bobbin

Cable type	Dimension	Sheath	Sheath Color	Outer diameter (mm)	Cable weight (kg/km)
Simplex	4x2x23 AWG	LSOH	Orange	7.5	56.0
Duplex	2x (4x2x23 AWG)	LSOH	Orange	7.5x15.2	112.0

Operation Conditions

	Static	Dynamic
Temperature range (Indoor)	-20°C to +60°C	0°C to +50°C
Bending radius	Static 4 x D	Dynamic 8 x D
Fire behaviour Pro LSOH cable	IEC 60332-3-24, IEC 60754-2, IEC 61034	



* The specifications and pictures are subject to change without notice.
*All trade names referenced are the registered trademark of their respective owners.

Basic Transmission Characteristics (20°C)

Frequency MHz	Attenuation dB/100m		NEXT dB		ELFEXT dB		Return loss dB	
	Cat 7E max.	Typical value	Cat 7E max.	Typical value	Cat 7E max.	Typical value	Cat 7E max.	Typical value
1	2.0	1.8	78	103	78.0	101	20.0	-
4	3.7	3.4	78	103	78.0	101	23.0	29
10	5.9	5.3	78	103	75.3	96	25.0	35
16	7.4	6.7	78	103	71.2	91	25.0	35
31.25	10.4	9.5	78	103	65.4	85	23.6	35
62.5	14.9	13.7	78	103	59.4	81	21.5	34
100	19.0	17.2	75.4	102	55.3	80	20.1	34
200	27.5	24.5	70.9	100	49.3	80	18.0	34
300	34.2	30.3	68.2	96	45.8	75	17.3	32
600	50.1	43.2	63.7	92	39.7	71	17.3	31
900	58.5	53.5	61.1	90	36.2	60	15.5	25
1000	61.9	56.8	60.4	89	35.3	55	15.1	23

Basic Electrical Characteristics (20°C)

- DC Conductor Resistance: $\leq 75 \text{ Ohm/km}$
- Insulation Resistance: $\geq 5000 \text{ M}\Omega\text{km} / 500 \text{ VDC}$
- Mutual Capacitance: $\leq 43 \text{ nF/km} / 1.0 \text{ KHz}$
- Capacitance pair to ground: $\leq 1500 \text{ pF/km} / 1.0 \text{ KHz}$
- Characteristic Impedance: $100 \pm 7\% \Omega / 1\text{-}100 \text{ MHz};$
 $100 \pm 7\% \Omega / 100\text{-}250 \text{ MHz}$
 $100 \pm 15\% \Omega / 250\text{-}600 \text{ MHz}$
- Velocity of Propagation: 79% nom.
- Operating Voltage: 100 V max.
- Dielectric Strength: 1000 Volts / 1 minute DC
- Transfer Impedance: $< 9.7 \text{ m}\Omega\text{/m}$ at 1 MHz
 $< 8 \text{ m}\Omega\text{/m}$ at 10 MHz
 $< 23 \text{ m}\Omega\text{/m}$ at 100 MHz
- Coupling Attenuation, min: 75 dB
- TCL, min: $50,0\text{-}10 \times \log_{10}(f)$ at 1-250 MHz

Identification Color Coding

- Pair 1: White / Blue
- Pair 2: White / Orange
- Pair 3: White / Green
- Pair 4: White / Brown

Sheath Marking

"LOGILINK S/FTP 4x2x23 AWG Cat7A in accordance with ISO/IEC 11801/ EN 50173 – Length m"



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