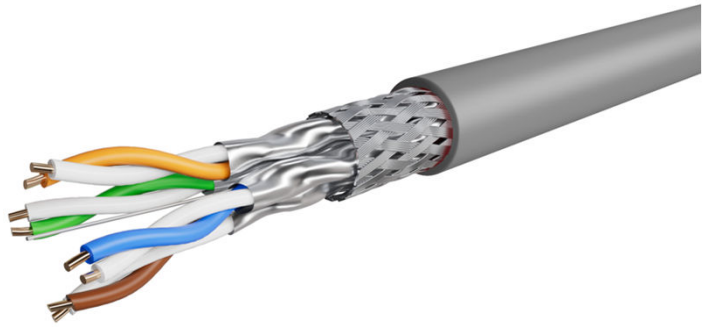


LAN DATA CABLE

Technical Specification

- Cable Type: 4X2X23# S/FTP (55%) Category 7A 100 Ohm LS0H-1 Indoor Horizontal Cable
- Part Number: H7A-HG704RXL-55
- Revision: 07/25
- Date: 13 August 2025



Category 7A S/FTP indoor cable, conforming to ISO/IEC-11801, IEC 61156-5, tested up to 1200 MHz. 4 individually foil shielded twisted pairs are cabled together, overall TC braid shielded and jacketed with LS0H compound for indoor use. The cable conforms to IEC 60332-1 & EU Regulation 305/2011 (CPR) Class Dca-s1a,d1,a1.

Physical Description				
Conductors	Solid 23AWG (UL444), bare annealed copper.			
Insulation	SFS-PO.			
Total number of insulated conductors	8, twisted in 4 pairs.			
Color Code	■ Blue	■ Orange	■ Green	■ Brown
	□ White	□ White	□ White	□ White
Individual pair shield	Aluminum foil, providing 100% coverage, foil face out.			
Overall shield	Tin-coated copper wire braid, providing 55% nom. coverage.			
Drain wire	Tin-coated copper wire, 0.40±0.01 mm, laid in contact with the foils and the braid shields.			
Outer jacket	Low-smoke, Zero-halogen, Flame-retardant compound for indoor use.			
Optional jacket colors	■ Gray RAL 7001	■ Red RAL 3000	□ White RAL 9003	■ Yellow RAL 1021
	■ Blue RAL 5015	■ Purple RAL 4005	■ Green RAL 6024	■ Light gray RAL 9002
Note:	Replace the x for jacket color H7A-HG704R x L: Black=1, White=2, Red=3, Blue=4, Yellow=5, Green=6, Orange=7, Purple=8, Gray=9			
Outer jacket thickness	0.50±0.05 mm			
Overall Diameter	7.4±0.3 mm			
Surface Marking	WESTERN WIRE H7A-HG704R x L 4x2x23 AWG S/FTP (55%) CATEGORY 7A LS0H LAN CABLE ISO/IEC-11801 & IEC 61156-5 TESTED TO 1200MHz FR IEC 60332-1 CPR Class Dca-s1a,d1,a1 CE 2011/65/EU (RoHS-2) [Batch Number] [Sequential Meter Mark] METER			

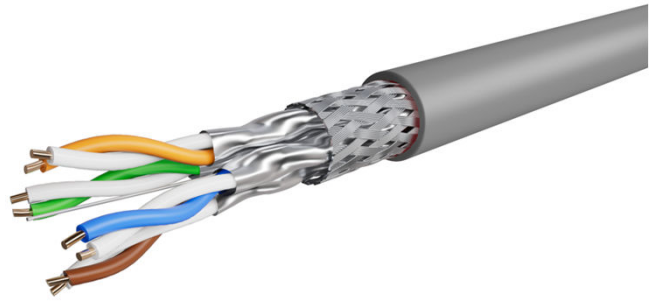
Mechanical Properties	
Bend Radius	Dynamic: 8xD min. Static: 4xD min
Storage temperature	-20 to +70°C
Temperature installation range	0 to +50°C
Temperature operating range	-20 to +70°C
Flame Tests	IEC 60332-1, IEC 60754, IEC 61034
EU Regulation 305/2011 (CPR) conformance	Class Dca-s1a,d1,a1.
Pulling force	110 N max.
Total Weight	58 kg/km nom.

Electrical Properties @ 20°C	
Characteristic Impedance	100±5 Ohm @ 100 MHz
Conductors DC Resistance	9.38 Ohm/100m max.
Shield DC Resistance	15 Ohm/km max.
Resistance unbalance - core to core	2% max.
Resistance unbalance - pair to pair	4% max.

LAN DATA CABLE

Technical Specification

- Cable Type: 4X2X23# S/FTP (55%) Category 7A 100 Ohm LS0H-1 Indoor Horizontal Cable
- Part Number: H7A-HG704RXL-55
- Revision: 06/25
- Date: 6 August 2025



Electrical Properties @ 20°C

Mutal capacitance	56 nF/km max. @ 1 kHz
Cap. unbalance (wire to ground)	160 pF/100m max. @ 1 kHz
Delay skew	25 ns/100m max.
Nominal Velocity of Propagation (NVP)	78±3%
Coupling attenuation	IEC 61156-5 Type I
Transfer Impedance	IEC 61156-5 Grade 1
TCL	IEC 61156-5 Level 1
Voltage rating	72 Vdc max.

Transmission Properties @ 20°C conforming to IEC 61156-5-2020 Category 7a (extended to 1.2GHz)

FREQ.	RL	Attenuation	NEXT	PS-NEXT	ELFEXT	PS-ELFEXT	TCL	ACR-F	PS-ACR-F	PS-AACR-F
MHz	dB	dB/100m	dB	dB	dB/100m	dB/100m	dB	dB	dB	dB
	Min.	Max.	Min.	Min.	Min.	Min.	Min.	Min.	Min.	Min.
1	20.0	2.1	78.0	75.0	78.0	75.0	40.0	35.0	67.0	67.0
10	25.0	5.8	78.0	75.0	75.3	72.3	40.0	15.0	67.0	67.0
20	25.0	8.2	78.0	75.0	69.3	66.3	37.0	9.0	67.0	67.0
25	24.3	9.2	78.0	75.0	67.3	64.3	36.0	7.0	67.0	65.2
30	23.8	10.1	78.0	75.0	65.8	62.8	35.2	5.5	67.0	63.7
62.5	21.5	14.6	78.0	75.0	59.4	56.4	32.0	NS	67.0	57.3
100	20.1	18.5	75.4	72.4	55.3	52.3	30.0	NS	67.0	53.2
200	18.0	26.5	70.9	67.9	49.3	46.3	27.0	NS	67.0	47.2
250	17.3	29.7	69.4	66.4	47.3	44.3	26.0	NS	67.0	45.2
300	17.3	32.7	68.2	65.2	45.8	42.8	NS	NS	67.0	43.7
400	17.3	38.0	66.4	63.4	43.3	40.3	NS	NS	67.0	41.2
500	17.3	42.8	64.9	61.9	41.3	38.3	NS	NS	67.0	39.2
600	17.3	47.1	63.7	60.7	39.7	36.7	NS	NS	65.8	37.6
800	16.1	54.9	61.9	58.9	37.2	34.2	NS	NS	64.0	35.1
1000	15.1	61.9	60.4	57.4	35.3	32.3	NS	NS	62.5	33.2
1200*	14.3	68.4	59.2	56.2	33.7	30.7	NS	NS	61.3	31.6

*Transmission parameters indicated above 1000MHz are nominal non-binding values provided for reference only.

This cable fully conforms to EU Directive 2011/65/EU (RoHS-2)