

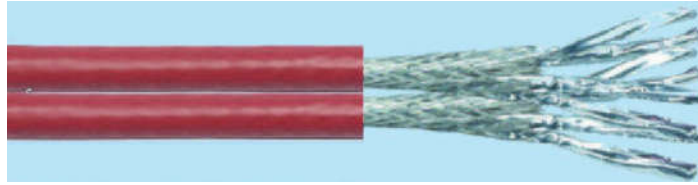


Technical Specification

Cable Type: 4x2x23# S/FTP 35% FIG-8 (Siamese) Category 7 100 Ohm LS0H-1 Indoor Horizontal Cable

Part Number: H07-HG708R6L-35-LL

Revision: 01/24 Date: 03 April 2024



Category 7 S/FTP indoor cable, conforming to ISO/IEC-11801, IEC 61156-5, tested up to 1000 MHz. 8 individually foil shielded twisted pairs cabled in two 4-pair cores, each core is overall TC braid shielded and jacketed in a Fig-8 (Siamese) formation 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

Basic conductor	Solid 23AWG, bare annealed copper
Insulation	SFS-PO
Total number of insulated conductors	16, twisted in two cores of 4 pairs each: Blue x White, Orange x White, Green x White, Brown x White
Individual pair shield	Polyester-aluminum foil, providing 100% coverage with 25% overlap, aluminum face out
Drain wire	Solid tin-coated copper wire, 0.40±0.01 mm
Overall shield	Tinned copper braid, providing 35±5% coverage
Outer jacket	Flame retardant, Low smoke, halogen-free (FR-LS0H) compound for indoor use
Color	Red, RAL 3000
Jacket thickness	0.50±0.05 mm
Cable OD.	7.1±0.3 x 15.2±0.8 mm
Surface marking	WESTERN WIRE H07-HG708R6L 2x(4x2x23 AWG) S/FTP CATEGORY 7 LS0H LAN CABLE ISO/IEC-11801 & IEC 61156-5 TESTED TO 1000MHZ 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 Static: 4xD
Operating temperature	-20 to +75°C
Storage temperature	-20 to +70°C
Installation temperature	0 to +50°C
Jacket properties - before aging	
Tensile strength	10.0 Mpa min.
Elongation	125% min
Jacket properties - After aging (100°Cx24hx7d)	
Tensile strength	8.0 Mpa min.
Elongation	100% min
Pulling force	200N max.
Cold bend	8xD @ -20°C x 4h - No visible cracks
Flame test	IEC 60332-1 (Flame propagation), IEC 60754 (Acid gas) & IEC 61034 (smoke density)
EU Regulation 305/2011 (CPR)	Class Dca-s1a,d1,a1
Conformance	
Total weight	103 kg/km nom.

Electrical Properties

Mean Impedance	100±5 Ohm @100MHz
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.
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,B
Transfer Impedance	IEC 61156-5 Grade 1
TCL	IEC 61156-5 Level 1
Voltage rating	72 Vdc max.

*Electrical parameters indicated above 600MHz are non-binding nominal values provided for reference only.

Transmission Properties @ 20C conforming to IEC 61156-5 Category 7 (extended to 1GHz)

FREQ.	RL	Attenuation	NEXT	PHASE DELAY	PS NEXT	ELFEXT	PS ELFEXT
MHz	dB	dB/100m	dB	ns	dB	dB/100m	dB/100m
	Min.	Max.	Min.	Max.	Min.	Min.	Min.
1	20.0	NS	78.0	570.0	75.0	78.0	75.0
4	23.0	3.74	78.0	552.0	75.0	78.0	75.0
8	24.5	5.24	78.0	546.7	75.0	75.9	72.9
10	25.0	5.86	78.0	545.4	75.0	74.0	71.0
16	25.0	7.41	78.0	543.0	75.0	69.9	66.9
20	25.0	8.29	78.0	542.0	75.0	68.0	65.0
25	24.3	9.29	78.0	541.2	75.0	66.0	63.0
31.25	23.6	10.41	78.0	540.4	75.0	64.1	61.1
62.5	21.5	14.88	75.5	538.6	72.5	58.1	55.1
100	20.1	19.02	72.4	537.6	69.4	54.0	51.0
150	18.9	23.56	69.8	536.9	66.8	50.2	47.2
200	18.0	27.47	67.9	536.5	64.9	48.0	45.0
250	17.3	30.97	66.4	536.3	63.4	46.0	43.0
300	17.3	34.19	65.2	536.1	62.2	44.5	41.5
600	17.3	50.10	60.7	535.5	57.7	38.4	35.4
700*	14.2	54.63	59.7	535.4	56.7	37.1	34.1
1000*	13.1	66.93	57.3	535.1	54.4	34.0	31.0

*Transmission parameters indicated above 600MHz are non-binding nominal values provided for reference only for mass goods.

Ordering information

Cable PN	Cable length	Packaging
H07-HG708R6L-35-100	100 meter	Coil
H07-HG708R6L-35-200	200 meter	Coil
H07-HG708R6L-35-300	300 meter	Wooden drum
H07-HG708R6L-35-500	500 meter	Wooden drum

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