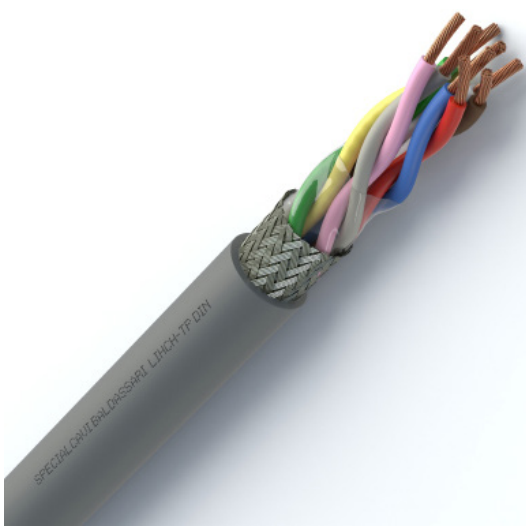


LIHCH-TP



Marking: <meters> CE 0987 SPECIALCAVI BALDASSARI LIHCH-TP <formation> IEC 60332-3-24 <lot> <year> B2CA-S1A,D0,A1



MANUFACTURING CHARACTERISTICS

Conductor:

Flexible bare copper, class 5

Insulation:

LSZH thermoplastic compound

Stranding:

Cores twisted in pairs

Pairs stranded in concentric layers

Wrapping and protection:

Overall polyester tape

Shield:

Overall tinned copper braid

Outer sheath:

LSZH thermoplastic compound

Colours:
Cores identification:

DIN 47100

Outer sheath colour:

Grey (based on RAL 7001)

ELECTRICAL CHARACTERISTICS

Operating voltage:

- 300V section $\leq 0,75 \text{ mm}^2$
- 500V section $\geq 1,00 \text{ mm}^2$

Sheath operating voltage:

- 450/750V

Maximum voltage:

- 2000V section $\leq 0,75 \text{ mm}^2$
- 2500V section $\geq 1,00 \text{ mm}^2$

APPLICATIONS

Cable conforms to the requirements in the Construction Products Regulations (CPR EU 305/11), aimed at limiting the production and diffusion of fire and smoke.

LSZH multi-pair cable with overall shield for data transmission in electronics and computers, for signalling, measurement, command and control systems, and generally where there is a need for efficient protection from external electromagnetic interferences and compact sizes.

It is particularly suitable in sites exposed to fire hazards and where there is high density of people, such as schools, offices, theaters, hospitals, etc.

Suitable for installation in dry or damp indoor environments, in static or limited dynamic installation (not permanently in motion) where there is no mechanical stress.

If stored outdoors, the cable must be protected from UV rays.

Underground laying is not permitted even if protected.

STANDARDS

CEI 20-29 IEC 60228

CEI 20-11

CEI EN 60332-3-24 Cat. C IEC 60332-3-24 Cat.C

CEI UNEL 36762

REACTION TO FIRE CLASS

EN 50575:2016 B2_{ca} - s1a, d0, a1

TEMPERATURES

Minimum working temperature:

- Fixed laying -40°C
- Occasional mobile laying w/o stress -5°C

Maximum working temperature:

- Fixed laying $+70^{\circ}\text{C}$
- Occasional mobile laying w/o stress $+70^{\circ}\text{C}$

Maximum short circuit temperature: $+160^{\circ}\text{C}$

LAYING CONDITIONS


 Minimum installation temperature -5°C

 Min. bending radius:
 d8 (fixed laying)
 d15 (occasional mobile laying)

 Max tensile stress:
 50N/mm² (during installation)
 15N/mm² (static stress)


Fixed laying



Occasional mobile laying w/o stress



In duct or cable tray



The cable stored outside must be protected from UV rays



In aria libera

ON REQUEST

- Customized cores identification/outer sheath colours

LiHCH-TP

PART NUMBER [n°]	FORMATION [n° x mm²]	OUTER DIAMETER¹ [mm]	WEIGHT¹ [kg/km]	MAX. ELECTRICAL RESISTANCE AT 20°C [Ohm/km]	CAPACITANCE		INDUCTANCE L [µH/m]
					Cc [pF/m]	Cs	
*LHX02502	2 X 2 X 0.25	6.1	50	75.00	115	210	0.95
*LHX02503	3 X 2 X 0.25	6.4	58	75.00	115	210	0.95
*LHX02504	4 X 2 X 0.25	6.9	69	75.00	115	210	0.95
*LHX02505	5 X 2 X 0.25	7.7	84	75.00	115	210	0.95
*LHX02506	6 X 2 X 0.25	8.3	96	75.00	115	210	0.95
*LHX02508	8 X 2 X 0.25	8.9	117	75.00	115	210	0.95
*LHX02510	10 X 2 X 0.25	10.0	141	75.00	115	210	0.95
*LHX03402	2 X 2 X 0.34	6.9	60	53.00	115	210	0.95
*LHX03403	3 X 2 X 0.34	7.4	76	53.00	115	210	0.95
*LHX03404	4 X 2 X 0.34	8.1	92	53.00	115	210	0.95
*LHX03405	5 X 2 X 0.34	9.0	112	53.00	115	210	0.95
*LHX03406	6 X 2 X 0.34	9.7	128	53.00	115	210	0.95
*LHX03408	8 X 2 X 0.34	10.5	160	53.00	115	210	0.95
*LHX03410	10 X 2 X 0.34	11.9	194	53.00	115	210	0.95
*LHX05002	2 X 2 X 0.50	8.0	77	39.00	125	225	0.90
*LHX05003	3 X 2 X 0.50	8.5	95	39.00	125	225	0.90
*LHX05004	4 X 2 X 0.50	9.4	118	39.00	125	225	0.90
*LHX05005	5 X 2 X 0.50	10.4	145	39.00	125	225	0.90
*LHX05006	6 X 2 X 0.50	11.3	168	39.00	125	225	0.90
*LHX05008	8 X 2 X 0.50	12.2	210	39.00	125	225	0.90
*LHX05010	10 X 2 X 0.50	14.0	267	39.00	125	225	0.90
*LHX07502	2 X 2 X 0.75	8.4	89	26.00	130	235	0.85
*LHX07503	3 X 2 X 0.75	9.0	113	26.00	130	235	0.85
*LHX07504	4 X 2 X 0.75	9.8	137	26.00	130	235	0.85
*LHX07505	5 X 2 X 0.75	10.9	170	26.00	130	235	0.85
*LHX07506	6 X 2 X 0.75	12.0	202	26.00	130	235	0.85
*LHX07508	8 X 2 X 0.75	12.7	245	26.00	130	235	0.85
*LHX10002	2 X 2 X 1.00	9.2	107	19.50	135	245	0.85
*LHX10003	3 X 2 X 1.00	9.7	133	19.50	135	245	0.85
*LHX10004	4 X 2 X 1.00	10.8	170	19.50	135	245	0.85
*LHX10005	5 X 2 X 1.00	11.9	205	19.50	135	245	0.85
*LHX10006	6 X 2 X 1.00	13.2	252	19.50	135	245	0.85
*LHX10008	8 X 2 X 1.00	14.0	308	19.50	135	245	0.85
*LHX15002	2 X 2 X 1.50	11.0	151	13.30	135	245	0.85
*LHX15003	3 X 2 X 1.50	11.6	189	13.30	135	245	0.85
*LHX15004	4 X 2 X 1.50	13.0	248	13.30	135	245	0.85
*LHX15005	5 X 2 X 1.50	14.4	302	13.30	135	245	0.85
*LHX15006	6 X 2 X 1.50	15.8	356	13.30	135	245	0.85
*LHX15008	8 X 2 X 1.50	17.0	446	13.30	135	245	0.85

PART NUMBER [n°]	FORMATION [n° x mm ²]	OUTER DIAMETER ¹ [mm]	WEIGHT ¹ [kg/km]	MAX. ELECTRICAL RESISTANCE AT 20°C [Ohm/km]	CAPACITANCE		-INDUCTANCE L [μH/m]
					C _c [pF/m]	C _s	
*LHX25002	2 X 2 X 2.50	13.0	246	7.98	145	260	0.85
*LHX25003	3 X 2 X 2.50	14.0	281	7.98	145	260	0.85
*LHX25004	4 X 2 X 2.50	15.5	357	7.98	145	260	0.85
*LHX25005	5 X 2 X 2.50	17.0	427	7.98	145	260	0.85
*LHX25006	6 X 2 X 2.50	18.7	507	7.98	145	260	0.85
*LHX02508	8 X 2 X 2.50	20.1	642	7.98	145	260	0.85

C_c: approx. cond./cond. of the pair capacitance, measured at 800 kHz frequency between two cores of the pair, leaving the other terminals not involved in the test floating
 C_s: approx. cond./shield of the pair capacitance, measured at 800 kHz frequency between one core of the pair and the shield, leaving the other terminals not involved in the test floating

L: approx. pair inductance, measured at 800 kHz frequency between two cores of the pair in short circuit, leaving the other terminals not involved in the test floating

¹ According to in-stock availability, cable which must be produced on request and minimum quantity

² Unless otherwise specified, the values for weight and diameter are indicative.

Note: other values, if available and released for publication, are available on request.