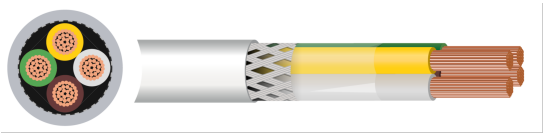
LiHCH Screened LSZH Cable



Description

LiHCH is a multi-core, screened signal and control cable engineered with flexible Class 5 copper conductors and low smoke zero halogen (LSZH) insulation and sheath. Its construction includes a tinned copper wire braid (TCWB) that serves as an electromagnetic shield, effectively suppressing signal interference in electronically dense environments. It has a minimum bend radius of 10 times the outer diameter and operating temperature range of -30°C to +70°C.

This cable is mainly used for low-voltage data transmission between electronic devices. It is an industry standard for industrial automation, robotics, and telecommunications, particularly in high-occupancy public infrastructure like airports and medical facilities. While the LSZH outer sheath is resistant to various oils and mechanical stress, it is specifically intended for indoor use in dry conditions.

LiHCH cable has high safety performance due to its construction; in a fire, the halogen-free compound in both the insulation and sheath ensures minimal smoke density and zero corrosive gas emission. This protects human life and sensitive electronic circuitry from halogen gas related damage. The integrated screen ensures high electromagnetic compatibility (EMC), allowing for clean signal paths even when routed in close proximity to power cables or high-frequency machinery.

Key Features

Voltage Rating
250 Volts

Minimum Bending Radius
Fixed: 10 x Overall Diameter
Flexing: 15 x Overall Diameter

Flame Retardancy
BS EN/IEC 60332-1-2

Temperature Limits
Temperature Range: -30°C to +70°C

Core Colours

Core 1:	White	Core 14:	Brown / Green
Core 2:	Brown	Core 15:	White / Yellow
Core 3:	Green	Core 16:	Yellow / Brown
Core 4:	Yellow	Core 17:	White / Grey
Core 5:	Grey	Core 18:	Grey / Brown
Core 6:	Pink	Core 19:	White / Pink
Core 7:	Blue	Core 20:	Pink / Brown
Core 8:	Red	Core 21:	White
Core 9:	Black	Core 22:	Brown / Blue
Core 10:	Violet	Core 23:	White / Red
Core 11:	Grey / Pink	Core 24:	Brown Red
Core 12:	Red Blue	Core 25:	White / Black
Core 13:	White / Green		

Standards

- BS EN/IEC 60332-1-2
- BS EN/IEC 60754-1/2
- BS EN/IEC 60228

Construction

- **Conductor**: Class 5 flexible stranded copper conductor
- **Insulation**: Low Smoke Zero Halogen (LSZH)
- **Braiding**: Tinned Copper Wire Braiding (TCWB)
- **Outer Sheath**: Low Smoke Zero Halogen (LSZH)
- **Sheath Colour**: Grey

Training & Testing Lab

AN ISO/IEC 17025 ACCREDITED FACILITY

Cleveland Cable Test & Training Lab
Our state-of-the-art cable testing facility ensures that every cable meets the highest standards of quality and compliance through continuous, rigorous testing.

ISO/IEC 17025 Accredited Testing Laboratory

CPR
Cleveland Cable Company is committed to compliance with the Construction Products Regulation (CPR). Where applicable, all cables manufactured after 1st July 2017 have been assessed in accordance with CPR requirements, with full supporting documentation available.

Our Sustainability Commitment

We are committed to the journey to Net Zero as a business partner, an employer and a community member.

By thinking and acting sustainably, we deliver excellent customer service while reducing carbon emissions in collaboration with our customers and suppliers.

ecovadis
Cleveland Cable Company has been independently assessed by EcoVadis, a globally recognised provider of business sustainability ratings. Our score places us among the top 35% of companies evaluated worldwide, reflecting our strong commitment to environmental, social, and ethical performance

LiHCH Screened LSZH Cable - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Overall Diameter(mm)	Weight(Kg/Km)
LiHCH2X/14	0.14	2	4.10	22
LiHCH3X/14	0.14	3	4.30	25
LiHCH4X/14	0.14	4	4.50	28
LiHCH5X/14	0.14	5	4.70	30
LiHCH6X/14	0.14	6	5.00	35
LiHCH7X/14	0.14	7	5.20	40
LiHCH8X/14	0.14	8	5.90	40
LiHCH10X/14	0.14	10	6.40	55
LiHCH12X/14	0.14	12	6.70	75
LiHCH16X/14	0.14	16	7.30	90
LiHCH25X/14	0.14	25	9.30	135
LiHCH2X/25	0.25	2	4.70	25
LiHCH3X/25	0.25	3	4.80	29
LiHCH4X/25	0.25	4	5.20	35
LiHCH5X/25	0.25	5	5.90	40
LiHCH6X/25	0.25	6	6.20	50
LiHCH7X/25	0.25	7	6.30	50
LiHCH8X/25	0.25	8	7.20	60
LiHCH10X/25	0.25	10	7.60	80
LiHCH12X/25	0.25	12	7.90	120
LiHCH16X/25	0.25	16	8.60	120
LiHCH25X/25	0.25	25	10.70	165
LiHCH2X/34	0.34	2	5.10	30
LiHCH3X/34	0.34	3	5.30	32
LiHCH4X/34	0.34	4	5.80	60
LiHCH5X/34	0.34	5	6.50	55
LiHCH6X/34	0.34	6	7.00	60
LiHCH7X/34	0.34	7	7.10	75
LiHCH8X/34	0.34	8	8.10	85
LiHCH10X/34	0.34	10	8.90	105
LiHCH12X/34	0.34	12	9.00	135
LiHCH16X/34	0.34	16	9.70	160
LiHCH25X/34	0.34	25	12.50	235
LiHCH2X/5	0.50	2	5.90	40
LiHCH3X/5	0.50	3	6.20	50
LiHCH4X/5	0.50	4	6.60	65
LiHCH5X/5	0.50	5	7.20	75
LiHCH6X/5	0.50	6	7.70	85

Reference	Conductor Size (mm2)	No Of Cores	Overall Diameter(mm)	Weight(Kg/Km)
LiHCH7X/5	0.50	7	7.80	85
LiHCH8X/5	0.50	8	9.00	135
LiHCH10X/5	0.50	10	9.50	130
LiHCH12X/5	0.50	12	9.90	145
LiHCH18X/5	0.50	18	11.70	215
LiHCH25X/5	0.50	25	13.90	320
LiHCH2X/75	0.75	2	6.10	45
LiHCH3X/75	0.75	3	6.60	60
LiHCH4X/75	0.75	4	7.20	90
LiHCH5X/75	0.75	5	7.80	100
LiHCH7X/75	0.75	7	8.40	120
LiHCH10X/75	0.75	10	10.80	175
LiHCH12X/75	0.75	12	11.10	200
LiHCH18X/75	0.75	18	12.80	325
LiHCH25X/75	0.75	25	15.40	460
LiHCH2X1	1.00	2	6.50	75
LiHCH3X1	1	3	7.00	90
LiHCH4X1	1	4	7.50	110
LiHCH5X1	1.00	5	8.10	125
LiHCH7X1	1	7	8.80	175
LiHCH2X1/5	1.50	2	7.70	90
LiHCH3X1/5	1.50	3	8.10	120
LiHCH4X1/5	1.50	4	8.80	150
LiHCH5X1/5	1.50	5	9.30	180
LiHCH7X1/5	1.50	7	10.50	220

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