



LiHCH (TP)

Screened pair and halogen free data cable

1

Technical Data:

- **Conductor material** Copper bare
- **Conductor class** Class 5 or IEC 60228 cl. 5
- **Core insulation** Halogen-free polymer compound
- **Core identification** DIN 47100: Different colours
- **Stranding** Cores twisted in pairs, pairs twisted in layers
- **Outer sheath** Polymer compound
- **Sheath colour** Grey (RAL 7032)
- **Rated voltage [V]** 300
- **Testing voltage [V]** Core/screen 2000 V. Core/core: on 0.14mm' 1200 V and >0.14mm' 1500
- **Insulation resistance** 20 MΩ x km
- **Current carrying capacity** DIN VDE (s. technical guidelines)
- **Min. bending radius fixed [xd]** up to 12mm Ø: 5 x d. up to 20mm Ø: 7.5 x d. > 20mm Ø: 10
- **Min. bending radius moved [xd]** up to 12mm Ø: 10 x d. up to 20mm Ø: 15 x d. > 20mm Ø: 20
- **Working temp fixed min/max [C]** -40°C up to +70°C
- **Working temp moved min/max [C]** -15°C up to +70°C
- **Temp at conductor max.** +70 °C
- **Burning behaviour** VDE 0482-332-2-1 (1EC 60332-1-2)

- **Approvals** DIN VDE 0812, 0814 and DIN 47414

Construction:

- fine stranded bare copper conductors
- acc. to DIN VDE 0295, class 5 or IEC 60228 cl. 5
- Exception: 0.34 mm² mult-wired (7 x 0.25 mm)
- core colours acc. to DIN 47100
- cores twisted in pairs
- pairs twisted in layers
- screening made of tinned copper wires
- outer sheath: polymer compound, halogen-free, flame-retardant

Application:

Halogen-free and environmentally data transmission cable, control and connecting cable predominantly for transmission of an analog and digital signals in process controlled facilities in measurement and control technology for lossless transmission of data and signals.

For fixed laying and flexible applications with undefined cable routing and without tensile stress. Suitable for use in dry and humid rooms. Outdoor use only with UV protection, no laying underground.

Part Number	No of cores x Cross section	Outer Ø ca. mm	Copper weight kg /100	Weight 100 kg/100	Part Number	No of cores x Cross section	Outer Ø ca. mm	Copper weight kg /100	Weight 100 kg/100
2144020014	2 x 2 x 0.14	5.80	1.90	3.90	2144020050	2 x 2 x 0.5	8.70	4.80	9.30
2144030014	3 x 2 x 0.14	6.00	2.30	4.80	2144030050	3 x 2 x 0.5	8.90	7.40	13.00
2144040014	4 x 2 x 0.14	6.30	2.70	5.40	2144040050	4 x 2 x 0.5	9.50	8.20	14.60
2144050014	5 x 2 x 0.14	8.00	4.53	7.60	2144050050	5 x 2 x 0.5	10.70	9.80	15.00
2144060014	6 x 2 x 0.14	7.20	4.90	8.70	2144060050	6 x 2 x 0.5	11.20	11.00	20.00
2144070014	7 x 2 x 0.14	8.70	6.50	9.40	2144070050	7 x 2 x 0.5	11.90	12.10	18.50
2144080014	8 x 2 x 0.14	8.30	5.40	11.00	2144080050	8 x 2 x 0.5	13.30	14.00	26.00
2144100014	10 x 2 x 0.14	8.90	6.00	11.00	2144100050	10 x 2 x 0.5	14.30	16.00	27.50
2144120014	12 x 2 x 0.14	9.00	6.60	14.20	2144120050	12 x 2 x 0.5	15.00	20.00	35.40
2144150014	15 x 2 x 0.14	11.40	9.24	15.70	2144150050	15 x 2 x 0.5	16.90	23.80	38.00
2144160014	16 x 2 x 0.14	10.30	7.90	15.40	2144160050	16 x 2 x 0.5	16.60	24.00	46.00
2144180014	18 x 2 x 0.14	12.60	11.00	19.00	2144180050	18 x 2 x 0.5	18.20	26.60	45.00
2144200014	20 x 2 x 0.14	11.40	10.00	18.40	2144240050	24 x 2 x 0.5	21.40	39.40	57.00
2144250014	25 x 2 x 0.14	12.60	11.30	24.00	2144020075	2 x 2 x 0.75	9.40	5.80	10.60
2144020025	2 x 2 x 0.25	7.10	3.00	5.40	2144030075	3 x 2 x 0.75	9.60	8.40	14.00
2144030025	3 x 2 x 0.25	7.30	4.00	6.60	2144040075	4 x 2 x 0.75	10.80	11.00	18.00
2144040025	4 x 2 x 0.25	7.70	4.50	8.10	2144050075	5 x 2 x 0.75	11.20	12.60	20.00
2144050025	5 x 2 x 0.25	8.60	5.98	9.80	2144060075	6 x 2 x 0.75	12.20	14.60	24.60
2144060025	6 x 2 x 0.25	8.60	7.00	11.60	2144070075	7 x 2 x 0.75	13.70	17.00	25.50
2144070025	7 x 2 x 0.25	9.50	7.13	12.00	2144080075	8 x 2 x 0.75	14.90	18.00	30.50
2144080025	8 x 2 x 0.25	10.40	7.70	13.00	2144100075	10 x 2 x 0.75	15.70	22.20	36.30
2144100025	10 x 2 x 0.25	10.70	11.00	15.30	2144120075	12 x 2 x 0.75	16.30	26.30	45.60
2144120025	12 x 2 x 0.25	11.40	12.00	19.00	2144150075	15 x 2 x 0.75	19.20	33.00	50.00
2144150025	15 x 2 x 0.25	12.90	13.60	21.30	2144160075	16 x 2 x 0.75	0.75	33.60	50.00
2144160025	16 x 2 x 0.25	12.70	14.70	23.80	2144180075	18 x 2 x 0.75	20.70	39.00	58.00
2144180025	18 x 2 x 0.25	13.60	15.50	24.80	2144020100	2 x 2 x 1	10.40	8.40	14.20
2144240025	24 x 2 x 0.25	16.20	22.60	30.00	2144030100	3 x 2 x 1	10.60	9.60	17.30
2144020034	2 x 2 x 0.34	7.20	4.33	6.80	2144040100	4 x 2 x 1	11.50	12.10	21.20
2144030034	3 x 2 x 0.34	8.50	5.50	9.20	2144050100	5 x 2 x 1	11.90	16.10	26.60
2144040034	4 x 2 x 0.34	9.50	6.40	11.00	2144080100	8 x 2 x 1	16.60	24.00	40.00
2144050034	5 x 2 x 0.34	10.00	7.45	12.80	2144100100	10 x 2 x 1	17.10	28.20	51.00
2144060034	6 x 2 x 0.34	10.60	8.50	14.70	2144120100	12 x 2 x 1	19.60	32.40	59.00
2144070034	7 x 2 x 0.34	11.10	9.10	15.40	2144020150	2 x 2 x 1.5	11.10	11.20	16.50
2144100034	10 x 2 x 0.34	13.20	12.58	20.90	2144030150	3 x 2 x 1.5	12.20	14.00	22.00
2144120034	12 x 2 x 0.34	14.30	13.94	24.50	2144040150	4 x 2 x 1.5	13.40	17.60	26.50
2144150034	15 x 2 x 0.34	15.10	17.20	27.90	2144050150	5 x 2 x 1.5	14.60	21.20	31.00
2144180034	18 x 2 x 0.34	16.80	20.70	36.30	2144080150	8 x 2 x 1.5	18.10	32.20	64.20
					2144100150	10 x 2 x 1.5	20.10	38.00	87.00
					2144120150	12 x 2 x 1.5	21.60	44.20	93.90