



Control & signal cables

J-H(st)H

Halogen-Free Installation Cable

DIN VDE 0815 static-foil screened halogen-free (LSZH) solid-pair installation cable



DIN VDE 0815

LSZH Halogen-Free (IEC 60754)

Al/PET Static Screen (St)

Application

Low-smoke zero-halogen ('LSZH') building installation, fire-alarm ('BMK') and BMS cable to DIN VDE 0815 ('J-H(st)H...Bd') with solid 0.6/0.8 mm copper conductors, halogen-free polyolefin cores ('H'), Al/PET static screen ('St') and HM2 LSZH sheath ('H').

Typical uses: Hospitals, airports, hotels & shopping centres, Fire alarm & voice evacuation systems (Red BMK), Building management systems (BMS) & KNX buses, Underground metro stations & road tunnels, Data centres & government infrastructure

Construction



Cross-section, not to scale

1	Solid bare copper conductor	DIN VDE 0815 / IEC 60228 Cl. 1
2	Halogen-free LSZH core insulation (H)	DIN VDE 0815 · HI2
3	Halogen-free wrapping tape	DIN VDE 0815
4	Static Al/PET foil screen (St)	DIN VDE 0815
5	Halogen-free LSZH outer sheath (H)	DIN VDE 0207-24 HM2 · IEC 60332-3-24

Technical data

Typical values

Peak operating voltage	300 V (not permitted for heavy current power installation)	AC test voltage (50 Hz)	800 V AC (core/core & core/screen)
Max. loop resistance (20 °C)	Ø 0.6 mm: ≤ 130 Ω/km · Ø 0.8 mm: ≤ 73.2 Ω/km	Mutual capacitance (800 Hz)	≤ 120 nF/km
Capacitive coupling (k ₁)	≤ 300 pF / 100 m at 800 Hz	Insulation resistance	≥ 100 MΩ·km at +20 °C
Temperature, during installation	−5 °C to +50 °C	Temperature, fixed operation	−30 °C to +70 °C
Min. bending radius, fixed	7.5 × overall diameter (single bend during installation: 2.5 × OD)	Stranding method (Bd)	2 cores twisted into a pair (2×2 as star-quad); 4 pairs stranded into unit bundles ('Bündelverseilung')
Conductor type	Solid annealed copper wire (Ø 0.6 mm or Ø 0.8 mm) for IDC / LSA-Plus blocks	Halogen-free & non-corrosive	IEC 60754-1 / EN 60754-1 & IEC 60754-2 (pH ≥ 4.3, conductivity ≤ 10 µS/mm)
Low smoke emission	IEC 61034-2 / EN 61034-2 (≥ 60 % light transmittance)	Flame retardance	IEC 60332-1-2 & IEC 60332-3-24 Cat. C bunched vertical flame test
Standards	DIN VDE 0815 (J-H(St)H...Bd)	Standard packing	Heat-treated ISPM-15 timber drums with sealed cable ends

Sizes

15 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Order designation	Cores × mm ²	AWG ≈	Outer Ø min mm	Outer Ø max mm	Copper kg/km	Weight ≈ kg/km	Min. bend R mm
n × 2 × 0.6 mm (Ø Solid Cu, Loop ≤ 130 Ω/km) LSZH DIN VDE 0815 8 sizes							
☐ J-H(St)H 1×2×0.6 Bd	1×2×0.6	23 (0.6 mm)	4.3	4.7	6	28	38
☐ J-H(St)H 2×2×0.6 Bd	2×2×0.6	23 (0.6 mm)	5.0	5.4	12	38	43
☐ J-H(St)H 4×2×0.6 Bd	4×2×0.6	23 (0.6 mm)	6.2	6.7	23	62	54
☐ J-H(St)H 6×2×0.6 Bd	6×2×0.6	23 (0.6 mm)	6.9	7.5	34	81	60
☐ J-H(St)H 10×2×0.6 Bd	10×2×0.6	23 (0.6 mm)	8.4	9.1	56	122	73
☐ J-H(St)H 20×2×0.6 Bd	20×2×0.6	23 (0.6 mm)	10.9	11.8	112	220	94
☐ J-H(St)H 30×2×0.6 Bd	30×2×0.6	23 (0.6 mm)	13.0	14.1	168	315	113
☐ J-H(St)H 40×2×0.6 Bd	40×2×0.6	23 (0.6 mm)	14.7	16.0	223	410	128
n × 2 × 0.8 mm (Ø Solid Cu, Loop ≤ 73.2 Ω/km) LSZH DIN VDE 0815 7 sizes							
☐ J-H(St)H 1×2×0.8 Bd	1×2×0.8	20	5.1	5.5	11	39	44
☐ J-H(St)H 2×2×0.8 Bd	2×2×0.8	20	5.7	6.2	21	56	50
☐ J-H(St)H 4×2×0.8 Bd	4×2×0.8	20	7.8	8.5	41	98	68
☐ J-H(St)H 6×2×0.8 Bd	6×2×0.8	20	9.0	9.8	61	136	78
☐ J-H(St)H 10×2×0.8 Bd	10×2×0.8	20	11.1	12.1	101	210	97
☐ J-H(St)H 12×2×0.8 Bd	12×2×0.8	20	12.0	13.0	121	246	104
☐ J-H(St)H 20×2×0.8 Bd	20×2×0.8	20	14.9	16.2	201	395	130

– Dimensions and weights are typical values per DIN VDE 0815 (J-H(St)H...Bd) · LSZH. Minimum fixed bending radius shown is 8 × OD.

Electrical & current ratings

2 sizes

Cross-section mm ²	AWG ≈	Max. DC resistance 20 °C, Ω/km	Single pair/core 30 °C, A	Multi-core bundle 30 °C, A
0.28	23 (0.6 mm)	65	4.0	3.0
0.5	20	39	9.0	6.0

– Current ratings at 30 °C ambient in free air per DIN VDE 0298-4 / DIN VDE 0891-1. Apply grouping derating factors for multi-core control and signal bundles.

Standards and approvals

✓ DIN VDE 0815 (J-H(St)H...Bd) · LSZH

✓ CE · RoHS 2 (2011/65/EU) · REACH

Certifications



Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone

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Email

info@tebaoflex.com

Web

tebaoflex.com/cables/j-h-st-h-halogen-free-installation-cable



Typical values for this cable type, based on DIN VDE 0815 (J-H(St)H...Bd) · LSZH. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.