JE-LiHCH

Application and Description

JE-LiHCH halogen-free cable with improved characteristics in the case of fire is used for telephone transmission, measuring and signal purposes. The copper shielding design (C) protects the transmission circuits against electrical interferences. A fire propagation is prevented through high oxygen index of the insulation material and produce no corrosive gases in case of fire. Those are preferable used for telecommunication indoor installations and in special cases the outdoor installation is permitted under protection against sunlight. These cables are suitable for fixed installation in areas with danger of fire, in dry and damp environments as well in and under plaster.

Standard and Approval

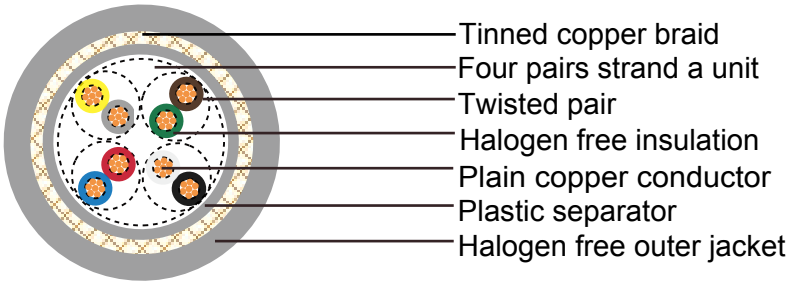
VDE 0815, CE Low Voltage Directive 73/23/EEC and 93/68/EEC, ROHS compliant

Cable Construction

- Plain copper conductor 7x0.3mm
- Halogen-free core insulation, compound type HI1 or HI2 to DIN VDE part 23
- Core identification to DIN VDE 0815 (with ring colours and ring groups)
- 2 conductors twisted in a pair, 4 pairs to a unit and several units stranded in layers (for 2 pairs cable, 4 conductors stranded to a quad)
- Plastic foil separator
- 85% bare/tinned copper braid, 0.2mm
- Halogen free outer jacket type HM1 or HM2 to DIN VDE 0207 part 24

Technical Characteristics

- Working voltage: 225 volts
- Test voltage: core/core 500 V
  core/screen 2000 V
- Minimum bending radius: 7.5 x Ø
- Flexing temperature: -5º C to +50º C
- Static temperature: -30º C to +70º C
- Flame retardant: IEC 60332.1-2



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- Mutual Capacitance: Max.120 nF/km at 800 Hz
  (This value may be extended at 20% with a make-up up to 4 pairs)
- Capacitance Unbalance
  Max. 200 pF/100 m (20% of the values, but one value up to 400 pF is allowed)
- Halogen free: DIN EN 50267/IEC 60754
- Smoke density: DIN EN50268/IEC 61034
- Insulation resistance: 100 MΩ x km

Cable Parameter

AWG	No. of Cores x Nominal Cross Sectional Area # x mm²	No. of Units	Nominal Overall Diameter mm	Copper Weight kg / km	Cable Weight kg / km
20	2x2x0.5	-	9	44	102
20	4x2x0.5	1	12	80	168
20	8x2x0.5	2	17	152	297
20	12x2x0.5	3	18	192	357
20	20x2x0.5	5	22	288	555
20	32x2x0.5	8	26	439	852
20	40x2x0.5	10	29	531	1005