JE-LiHCH Bd

Cables for Industrial Electronics

TECHNICAL DATA

Data cable in alignment with DIN VDE 0815

Temperature range	flexible -5°C to +50°C fixed -30°C to +70°C
Peak operating voltage	225 V (not for high power current installation purposes)
Test voltage core/core	500 V
Test voltage core/screen	2000 V
Conductor resistance at 20°C	max. 39.2 Ohm/km
Mutual capacitance core/core	at 800 Hz 2 - 4 pairs: approx. 144 pF/m 8 - 40 pairs: approx. 120 pF/m
Capacitive coupling k_1	at 800 Hz, max. 200 pF/100m; 20% of the values, but at least one value may amount up to 400 pF/100m
Minimum bending radius	fixed 7.5x Outer-Ø

CABLE STRUCTURE

- Copper wire bare, stranded
- Wire structure:
  0.5 mm²: 7 x 0.3 mm
- Core insulation: halogen-free polymer acc. to DIN VDE 0819-106 / DIN EN 50290-2-26
- Core identification acc. to. DIN VDE 0815, colour coded ring marking of the bundles
- Cores stranded in pairs with optimal lay lengths, 4 pairs stranded into bundles with optimal lay lengths, bundles stranded in layers with optimal lay lengths
- Foil wrapping
- Screen: braided screen of tinned copper wires
- Outer sheath: halogen-free polymer acc. to DIN VDE 0819-107 / DIN EN 50290-2-27
- Sheath colour: grey (RAL 7032)

PROPERTIES

- halogen-free

TESTS

- corrosiveness of combustion gases acc. to DIN VDE 0482-754-2 / DIN EN 60754-2 / IEC 60754-2
- bundle fire test acc. to DIN VDE 0482-332-3-24 / DIN EN 60332-3-24 / IEC 60332-3-24
- smoke density acc. to DIN VDE 0482-1034-1+2 / DIN EN 61034-1+2 / IEC 61034-1+2
- certifications and approvals:
  EAC

APPLICATION

Halogen-free installation cables with improved characteristics in the case of fire are used for telephone transmission, measuring and signal purposes. The copper screened 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. They are preferably used for telecommunication installations inside buildings. These cables are suitable for fixed installation in areas with danger of fire, in dry and damp environments as well as in and under plaster. Installation cables are not allowed for purposes of high current and power or burial installation. EMC= Electromagnetic compatibillity; to optimize the EMC features we recommend a large round contact of the copper braiding on both ends.

NOTES

- the conductor is metrically (mm²) constructed, AWG numbers are approximated, and are for reference only
- 2-pair cables: cores stranded to a star quad

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
34350	2 x 2 x 0.5	20	6.8	44.0	102.0
34351	4 x 2 x 0.5	20	8.7	80.0	168.0
34352	8 x 2 x 0.5	20	12.9	152.0	297.0
34353	12 x 2 x 0.5	20	13.6	192.0	357.0

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
31119	16 x 2 x 0.5	20	14.7	243.0	405.0
34354	20 x 2 x 0.5	20	15.9	288.0	555.0
34355	32 x 2 x 0.5	20	20.5	439.0	852.0
34356	40 x 2 x 0.5	20	22.5	531.0	1005.0