1600096	DATA SHEET	LAPP
valid from: 2026-06-16	H07RN-F	

Application

H07RN-F are heavy duty flexible rubber cables for use under high mechanical load conditions in dry or damp rooms and outdoors.
Continuous operational movements, forced guidance or use on cable reels or rollers or under tensile load with a conductor cross-section of more than 15 N/mm² are not allowed.
Single-core designs of flexible rubber cables can be used for short-circuit and earth-leakage-proof installations according to VDE 0100-520.
Application range:
According to EN 50565-2 in dry and damp rooms as well as outdoors in compliance with all standardised cable properties; for medium mechanical loads, e.g. for equipment in industrial and agricultural workshops, electric tools, portable motors, machine tools

Design

Design	acc. to. EN 50525-2-21
Certification	The cable is characterized with the ⊲HAR⊳ HAR-sign or HAR-identification thread.
Conductor	fine wire strands of bare copper acc. to IEC 60228 resp. EN IEC 60228, class 5
Insulation	rubber compound EI4 acc. to EN 50363-1
Core identification code	up to 5 cores: colour-coded acc. to VDE 0293-308 with or without GN-YE ground conductor starting at 6 cores: black cores with white numbers with GN-YE ground conductor acc. to EN 50334
Outer sheath	rubber compound EM2 acc. to EN 50363-2-1

Electrical properties at 20 °C

Nominal voltage	U_0/U: 450 / 750 V (up to 1000 V AC to earth at protected, fixed installation acc. to EN 50565-2)
Test voltage	C / C: 2500 V AC

Mechanical and thermal properties

Minimum bending radius	4 to 8 x outer diameter acc. to EN 50565-1 Tab.3
Temperature range	up -25 °C to +60 °C max. conductor temperature
Flammability	flame retardant acc. to IEC 60332-1-2 resp. EN 60332-1-2
Oil resistance	acc. to EN 50363-2-1

Tests	acc. to IEC 60811 resp. EN 60811, EN 50395, EN 50396
General requirements	These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive)
Environmental information	These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).

Note	Trade product, no LAPP product

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