

1600600	DATA SHEET	
valid from: 01.01.2019	Rubber Insulated Cable H07RN8-F	

Application

Rubber Insulated Cable H07RN8-F is a heavy-duty, rubber-sheathed cable to be used with heavy appliances such as tool and agricultural machinery in dry, damp or wet rooms. Continuous, busy movements or under a strain of more than 15 N/mm² conductor cross section are not allowed.

According to DIN EN 50565-2 (VDE 0298-565-2), this cable is suitable for permanent submersion in water up to a depth of 10 m by a maximum water temperature of +40 °C and for use as supply cable for submersible pumps.

Design

Design	acc. to. EN 50525-2-21 (VDE 0285-525-2-21)
Conductor	fine wire strands of bare copper, acc. to IEC 60228 resp. EN 60228 (VDE 0295), Class 5
Insulation	rubber compound EI4 acc. to EN 50363-1 (VDE 0207-363-1)
Core identification code	up to 5 cores: colour-coded acc. to VDE 0293-308 (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 (VDE 0293-334)
Outer sheath	Single-layered: Rubber compound EM 2 acc. EN 50363-2-1 Double-layered: Inner layer Rubber EM 2 or EM 3 acc. EN 50363-2-1 Outer sheath Rubber compound EM 2 acc. EN 50363-2-1

Electrical properties at 20°C

Rated voltage	U ₀ /U: 450/750 V
Test voltage	A / A: 2500 V AC

Mechanical and thermal properties

Minimum bending radius	4 to 8 x D acc. to DIN EN 50565-1 (VDE 0298-565-1)
Temperature range	Flexible use: -25 °C to +60 °C Fix installation: -40 °C to +60 °C
Flammability	acc. to IEC 60332-1-2 resp. EN 60332-1-2 (VDE 0482-332-1-2)
Oil resistance	acc. to EN 60811-404 (VDE 0473-811-404)
Water-resistance	acc. to EN 50525-2-21 (VDE 0285-525-2-21), appendices D + E, EN 50565-2 (VDE 0298-565-2), max. water temperature: + 40 °C when submersed
Tests	acc. to EN 60811-100 (VDE 0473-811-100); EN 50395 (VDE 0481-395), EN 50396 (VDE 0473-396); EN 50363 (VDE 0207-363) The cable is characterized with the <HAR> HAR-sign or HAR-identification thread.
General requirements	These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive)

Creator: KASC / PDC	Document: DB1600600EN	Page 1 of 1
Released: ALTE / PDC	Version: 04	