

## VG 95218 part 13 A

### H07RN-F 450/750 V



Rubber insulated cables and insulated wires, part 13 A.

#### Application

Suitable for use in dry, humid or moist rooms and outdoor for transportable motors or machines on building sites or in agricultural works. Medium mechanical stresses, e.g. for industrial and agricultural workshop appliances, large boiling installations, heating plates, inspection lamps, electric tools such as drills, circular saws, domestic electric tools.

Can be used in workshops having an explosive atmosphere. When a cable is used in the presence of explosive or flammable atmosphere, guidance should be respected with reference to EN 60079 series of specifications and guidance should be sought in selecting the suitable cables.

Applicable in fixed installations e.g. on rough-cast in temporary buildings for accommodation purposes, also for wiring of constructional components in lifting appliances and machinery. Usage up to 1000 V A/C is permitted for fixed, protected installation (in conduit or in appliances) and also for motor connections of hoisting motors and the like.

The cables are not suitable for applications involving permanent immersion in water. In other aspects the specifications of DIN VDE 0298 part 300 apply. Oil resistant to EN 60811-404. Resistant to ozone (EN 50363-1 for insulation and EN 50363-2-1 for the outer sheath).

The cables are certified from the Bundesamt für Ausrüstung, Informationstechnik und Nutzung der Bundeswehr (BAAINBw).

H07RN-F 450/750 V	
Global data	
Brand	OZOFLEX
Type designation	H07RN-F
Standard	VG 95218 part 13 DIN EN 50525-2-21
Design features	
Conductor	Round stranded, tinned copper wires acc. to. class 5 of IEC 60228.
Insulation	Cross-linked, EPR based rubber compound.
Core identification	According to EN50525-1.
Core arrangement	Cores round stranded, 7 core versions with central filler, 12 & 18 core versions in two layers.
Inner sheath (When applicable)	Cross-linked, EPR based rubber compound, colour: black.
Outer sheath	Cross-linked, CPE based rubber compound, colour: black.
Electrical parameters	
Rated voltage	450/750 V

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Max. permissible operating voltage	AC	0.476/0.825 kV
	DC	0.619/1.238
AC test voltage	2.5 kV	
Current carrying capacity description	According to VG 95218-5, values are valid for one cable free in air at 30 °C ambient temperature.	
Chemical parameters		
Flame propagation	IEC 60332-1-2	
Resistance to oil	EN 60811-404	
Thermal parameters		
Max. operating temperature of the conductor	60 °C	
Ambient temperature for fix installation min.	-40 °C	
Laying temperature min.	-25 °C	
Mechanical parameters		
Max. tensile load on the conductor	15 N/mm <sup>2</sup>	

Available cross sections are part of the standard. Single datasheets with more information are available upon request.