H07BN4-F Wind Class5   valid from: 2010-03-12

APPLICATION

H07BN4-F Wind Class5 with its class-5 conductor is explicitly designed for the use in the loop of wind energy plants at mechanically medial stress. The cable can be operated at fix, flexible and freely hanging installation. Freely pendulously, torsion may task the cable. H07BN4-F Wind Class5 can be used in dry and damp environment. According to HD 516, the cable is applicable for up to 1000 VAC at protected, fix laying (in appliances and conduits). Furthermore, H07BN4-F Wind Class5 is adequate for the maximum conductor temperature of +90 °C. In case of high operated conductor temperatures, human body contact with the cable must be avoided.

Allowed nominal voltages	(HD 22.1; HD 516)
Phase-to-Phase:	750 VAC/1125 VDC
Phase-to-Ground:	450 VAC/675 VDC
Operated voltages:	Max. 10 % above the nominal voltages (VAC or VDC)

DESIGN   Torsion-resistant windmill loop construction

Certification	<HAR> H07BN4-F according to HD 22.12
Conductor	Bare copper, fine wire strand: IEC 60228 class 5
Available cross sections in sq.mm	95, 120, 150, 185, 240, 300, 400
Core insulation	EI 7: HD 22.12, EN 50363-1
Core quantity	Only available as single-core cable
Outer sheath	EM 7: HD 22.12, EN 50363-2-1
Colour of the outer sheath	Black

ELECTRICAL PROPERTIES

Nominal voltage U_0/U	450/750 VAC
Test voltage	2500 V

MECHANICAL AND THERMAL PROPERTIES

Conductor temperature range	Fixed installation: –40 °C up to +90 °C
	Flexible use: -15 °C up to +90 °C
	Windmill loop: -40 °C up to +90 °C
Torsion resistance	±150 °/m, 20.000 cycles
Minimum bending radius	6 x outer diameter flexing
	5 x outer diameter static
Flame retardance	IEC 60 332-1-2
Oil resistance	HD 22.12, EN 50363-2-1, EN 60811-2-1
Ozone resistance	HD 22.12, EN 50363-2-1, EN 60811-2-1
EC low voltage directive	This cable is conformative to ECD 73/23/EEC (low voltage directive).
RoHS directive	This cable complies with the RoHS directive (2002/95/EC).