XTREM®
H07BN4-F

Flexible rubber cable, for industrial use.

ACCORDING TO: EN 50525-2-21

100% Green Energy Cable Production

APPLICATION

Xtrem® H07BN4-F rubber cables are designed to supply power to low voltage appliances.
Thanks to its extraordinary flexibility and mechanical strength, the Xtrem® H07BN4-F cable is ideal for power transmission in both fixed installation or mobile service.
Flexible cable suitable for industrial and agricultural workshop equipment, for transportable engines and machines in buildings, for wind turbines, agricultural holdings, reels and lifting devices.

CONSTRUCTION

Conductor
Electrolytic annealed copper, class 5 (flexible) according to EN 60228 and IEC 60228.

Insulation
Thermosetting rubber, type EI7 according to EN 50363-1.
The standard identification according to HD 308 is the following:
1 x Natural

Outer sheath
Thermosetting flexible rubber, type EM7 according to EN 50363-2-1.
Black colour.

CHARACTERISTICS

Electrical performance
Low voltage: 450/750V.

Thermal performance
Maximum conductor temperature: 90°C.
Maximum short-circuit temperature: 250°C (max. 5 s).
Minimum service temperature: -40°C (mobile use).

Fire performance
Flame non-propagation according to EN 60332-1 / IEC 60332-1.

Mechanical performance
Minimum bending radius:
3 x cable diameter < 12 mm.
4 x cable diameter ≥ 12 mm.
Impact resistance: AG2 Medium severity.

Environmental performance
Chemical & Oil resistance: Excellent.
Grease & mineral oils resistance: Excellent.

Installation conditions
Open Air.

Other
Meter by meter marking.

STANDARDS / COMPLIANCE

According to
EN 50525-2-21

Standards and approvals
RoHS / CE

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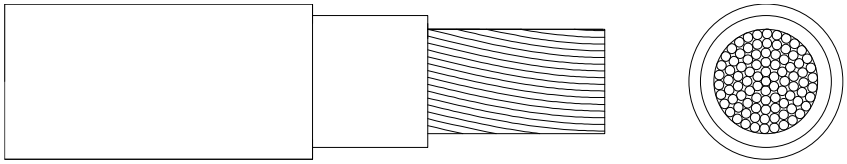
DIMENSIONS & ADMISSIBLE INTENSITIES



Cross-section (mm^2)	Diameter (mm)	Weight (kg/km)	Fixed Inst. (A) [1]	Mobile Service (A) [2]	Voltage drop (V/A · km) [3]
1x4	7,4	90	40	30	10,93
1x6	8,1	115	53	38	7,28
1 x 10	9,9	180	74	53	4,21
1 x 16	11,2	245	101	71	2,67
1 x 25	13,0	350	135	94	1,723
1 x 35	14,6	465	169	117	1,223
1 x 50	17,0	640	207	148	0,852
1 x 70	19,1	850	268	185	0,600
1 x 95	21,4	1.105	328	222	0,455
1 x 120	23,3	1.380	383	260	0,355
1 x 150	26,1	1.735	444	300	0,285
1 x 185	28,2	2.080	510	341	0,234
1 x 240	31,4	2.675	607	407	0,177
1 x 300	34,4	3.275	703	468	0,142

[1] Reference method F according to IEC60364-5-52 in open air at 30°C ambient temperature. It is supposed a three-phase circuit.
[2] One cable in open air at 30°C ambient temperature according to EN 50565. It is supposed a three-phase circuit.
[3] At 90°C conductor temperature and cos φ= 1.

SHORT-CIRCUIT CURRENT-CARRYING CAPACITIES

Time (s)	0,1	0,2	0,3	0,5	1	1,5	2	2,5	3
A/mm²	452	320	261	202	143	117	101	90	83

CORRECTION FACTORS TEMPERATURE

Air Temp (ºC)	30	35	40	45	50	55
Mobile service	1	0,91	0,82	0,71	0,58	0,41
Fixed installation	1	0,96	0,91	0,87	0,82	0,76