



APPLICATION

The cable X-PUR[®] H07BQ-F is a flexible cable for mobile service. Suitable for installations where the cable must withstand medium mechanical stress, for machines in industrial and agricultural workshops, for motors and transportable machines on construction sites, for windmills and for agricultural exploitations.

CONSTRUCTION

Conductor

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

Insulation

Cross-linked elastomeric, type EI6 according to EN 50363-1.

The standard identification, according to HD 308 is the following:

1 x	Natural
2 x	Blue + Brown
3 G	Blue + Brown + Green/Yellow
4 G	Brown + Black + Grey + Green/Yellow
5 G	Brown + Black + Grey + Blue + Green/Yellow
6 or more	Black numbered + Green/Yellow







Lay - up

The cores are twisted together.

Outer sheath


Thermoplastic polyurethane, type TPU according to EN 50363-10-2.
Orange color.

CHARACTERISTICS

-  **Electrical performance**
Low voltage: 450/750 V.
-  **Thermal performance**
Maximum conductor temperature: 90°C.
Maximum short-circuit temperature: 250°C (max. 5 s).
Minimum service temperature: -40°C (static with protection).
-  **Fire performance**
Flame non propagation according to EN 60332-1 (not <HAR> requirement).
-  **Mechanical performance**
Minimum bending radius:
3x cable diameter (cable <12 mm)
4x cable diameter (cable ≥12 mm)
Impact resistance: AG2 Medium severity.
-  **Environmental performance**
Chemical & Oil resistance: Excellent.
-  **Installation conditions**
Open air.

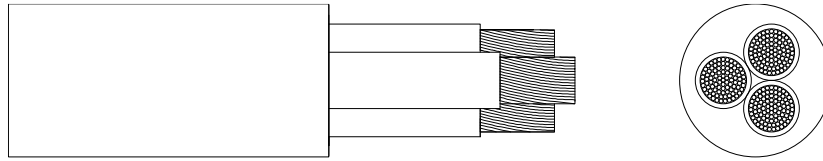
STANDARDS / COMPLIANCE

 According to
EN 50525-2-21

 Standards and approvals
AENOR <HAR> / CE / RoHS



DIMENSIONS & ADMISSIBLE INTENSITIES



Cross-section (mm ²)	Diameter (mm)	Weight (kg/km)	Fixed Inst. (A) ¹	Mobil Service (A) ²	Voltage drop (V/A · km) ³
1 x 95 *	19,6	955	328	222	0,414
1 x 185 *	26,3	1.800	510	341	0,213
1 x 240 *	29,1	2.320	607	407	0,161
2 x 1,5	7,7	75	26	16	30,9
3 G 1,5	8,2	95	26	16	30,9
3 G 2,5	9,5	145	36	25	18,5
3 G 4	11,2	210	49	35	11,5
4 G 1,5	9,1	125	23	16	26,7
4 G 2,5	10,7	180	32	20	16,0
4 G 4	13,2	245	42	30	10,0
5 G 1,5	10,1	150	23	16	26,7
5 G 2,5	12,4	210	32	20	16,0
5 G 4	14,6	335	42	30	10,0
5 G 6	16,2	455	54	38	6,61
5 G 10	21,0	770	75	54	3,82
5 G 16	24,0	1.105	100	71	2,42
5 G 25 *	29,9	1.705	127	94	1,56
5 G 35 *	33,4	2.260	158	-	1,11
5 G 50 *	38,8	3.125	192	-	0,773
6 G 1,5 *	12,9	195	23	16	26,7
7 G 2,5 *	15,1	335	32	20	16,0

* 07BQ-F (these cables are outside of the range of the standard)

¹Reference method F for single-core and method E for multicore cables according to IEC60364-5-52 in open air at 30°C ambient temperature.

²In open air at 30°C ambient temperature according to EN 50565.

³At 60°C conductor temperature and $\cos \varphi = 1$.

For cables having 2 or 3 cores, are supposed a single-phase circuit. For the rest of the cables are supposed a three-phase circuit.

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 FOR AIR TEMPERATURE

Air T. (°C)	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