



AT-N05VV-U(R)/(N)YM

Installation cables 300/500 V, insulated and sheathed with PVC

APPLICATION

Installation cable suitable for household and industrial usage. Laid on or under plaster, in walls or concrete, without special mechanical protection, but not in dry or pre-stressed concrete. Suitable for dry, same as damp or wet environment; for internal or external application (only if the cable is protected against direct sunlight).

TECHNICAL CHARACTERISTICS

Voltage rating (U₀/U): 300/500 V
 Testing voltage: 2 kV
 Max. working temperature: 70°C
 Max. short-circuit temperature: 160°C
 Min. bending radius: 6D
 CPR classification: Eca

CONSTRUCTION

Conductors: Cu, class 1 or 2 according to EN 60228
 Insulation: PVC compound, type TI 1
 Bedding: PVC or EPDM compound
 Sheath: PVC compound, type TM 1

CORE IDENTIFICATION

According to HD 308 S2

Insulation color:

- 1-core: ● green/yellow OR ● black
- 2-core: ● brown ● blue
- 3-core(a): ● green/yellow ● brown ● blue
- 3-core(b): ● black ● brown ● gray
- 4-core(a): ● green/yellow ● brown ● black ● gray
- 4-core(b): ● blue ● brown ● black ● gray
- 5-core: ● green/yellow ● blue ● brown ● black ● gray

Outer Sheath Colour:

- gray

Other colours available on request

STANDARD

ÖVE E 8242, IEC 60227-4

CERTIFICATION



International
Electrotechnical
Commission



Nominal cross-section	Conductor class	Max. resistance at 20°C	Current capacity in the air at 30°	Nominal insulation thickness	Nominal sheath thickness	Outer diam. (max.)	Cu weight	Cable weight (approx.)
mm ²		Ω/km	A	mm	mm	mm	kg/km	kg/km
2x1,5	1	12,1	17,5	0,6	1,2	10,0	28,8	123
2x2,5	1	7,41	24	0,7	1,2	11,5	48,0	167
2x4	1	4,61	32	0,8	1,2	12,5	76,8	227
2x6	1 or 2	3,08	41	0,8	1,2	14,0	115,2	288
2x10	1 or 2	1,830	57	1,0	1,4	17,5	192,0	470
2x16	2	1,150	76	1,0	1,4	20,0	307,2	703
2x25	2	0,727	101	1,2	1,4	24,0	480,0	1028
2x35	2	0,524	125	1,2	1,6	27,5	672,0	1133
3x1,5	1	12,1	17,5	0,6	1,2	10,5	43,2	142
3x2,5	1	7,41	24	0,7	1,2	12,0	72,0	196
3x4	1	4,61	32	0,8	1,2	13,0	115,2	272
3x6	1 or 2	3,08	41	0,8	1,4	15,5	172,8	365
3x10	1 or 2	1,830	57	1,0	1,4	19,0	288,0	576
3x16	2	1,150	76	1,0	1,4	21,5	460,8	872
3x25	2	0,727	101	1,2	1,6	26,0	720,0	1309
3x35	2	0,524	125	1,2	1,6	29,0	1008,0	1462
4x1,5	1	12,1	17,5	0,6	1,2	11,5	57,6	170
4x2,5	1	7,41	24	0,7	1,2	13,0	96,0	238
4x4	1	4,61	32	0,8	1,4	14,5	153,6	346
4x6	1 or 2	3,08	41	0,8	1,4	17,0	230,4	467
4x10	1 or 2	1,830	57	1,0	1,4	20,5	384,0	715
4x16	2	1,150	76	1,0	1,4	23,5	614,4	1089
4x25	2	0,727	101	1,2	1,6	28,5	960,0	1645
4x35	2	0,524	125	1,2	1,6	32,0	1344,0	1825
5x1,5	1	12,1	17,5	0,6	1,2	12,0	72,0	199
5x2,5	1	7,41	24	0,7	1,2	14,0	120,0	282
5x4	1	4,61	32	0,8	1,4	16,0	192,0	430
5x6	1 or 2	3,08	41	0,8	1,4	18,5	288,0	558
5x10	1 or 2	1,830	57	1,0	1,4	22,0	480,0	862
5x16	2	1,150	76	1,0	1,6	26,0	768,0	1341
5x25	2	0,727	101	1,2	1,6	31,5	1200,0	2002
5x35	2	0,524	125	1,2	1,6	35,0	1680,0	2276
7x1,5	1	12,1	17,5	0,6	1,2	13,0	100,8	235
7x2,5	1	7,41	24	0,7	1,4	15,5	168,0	349