

Solid CABLES
PVC/PVC INSULATED COPPER 500 V

FR-N05VV-U/FR-N05VV-R

APPLICATIONS

They are used in common household installations indoors. The two or three-conductor cables are used in single-phase current while the four or five-conductor cables are used in three-phase current. They should be installed in pipes, plinth or in visible installations. They should be neither buried nor drawn in concrete.

CONDUCTOR CONSTRUCTION

- For sections $\leq 6 \text{ mm}^2$: class 1 (FR-N05VV-U)
- For Section $> 6 \text{ mm}^2$: class 2 (FR-N05VV-R)

CONDUCTOR IDENTIFICATION

Number of conductors	Option A	Option B
2		Black, Blue
3	Green / Yellow Black, Blue	Black, Blue, Brown
4	Green / Yellow, Black, Blue, Brown	Blue, Brown , Black, Grey
5	Green / Yellow, Black, Blue Brown, Black	Black, Blue, Brown Black, Black

Cables of option A are described with a letter G.

TECHNICAL DATA

Nominal Voltage: 300/500Vcc.
Maximum Operating temperature: +70° C
Maximum short circuit temperature: +160° C.

DESCRIPTION

CORE
Copper

INSULATION
PVC

FILLER
PVC

OUTER SHEATH
Grey PVC



FR-N05VV-U/FR-N05VV-R

Type	Overall Diameter mm	net Weight Kg/Km	Electrical resistance at 20°C (Ω/km)	Current carrying Capacity (A)	Voltage drop (1) between phase $\cos\phi=0,8$ (V/A/km)
FR-N05VV-U					
2x1,5	9,0	119	12,10	22,0	23,10
2x2,5	10,0	161	7,41	30,0	14,20
2x4	11,0	209	4,61	40,0	8,95
2x6	12,0	268	3,08	51,0	6,06
3x1,5	9,0	137	12,10	22,0	23,10
3x2,5	11,0	192	7,41	30,0	14,20
3x4	12,0	253	4,61	40,0	8,95
3x6	13,0	342	3,08	51,0	6,06
4x1,5	10,0	162	12,10	18,5	20,00
4x2,5	11,0	231	7,41	25,0	12,30
4x4	13,0	318	4,61	34,0	7,75
4x6	15,0	434	3,08	43,0	5,24
5x1,5	11,0	190	12,10	18,5	20,00
5x2,5	12,0	270	7,41	25,0	12,30
5x4	14,0	392	4,61	34,0	7,75
5x6	16,0	515	3,08	43,0	5,24
FRN05VV-R					
2x10	16,0	478	1,83	70,0	3,60
2x16	18,0	661	1,15	94,0	2,30
2x25	22,0	994	0,727	119,0	1,50
2x35	25,0	1329	0,524	147,0	1,10
3x10	17,0	585	1,83	70,0	3,60
3x16	20,0	845	1,15	94,0	2,30
3x25	24,0	1267	0,727	119,0	1,50
3x35	27,0	1674	0,524	147,0	1,10
4x10	19,0	716	1,83	60,0	3,10
4x16	22,0	1042	1,15	80,0	2,00
4x25	26,0	1599	0,727	101,0	1,30
4x35	29,0	2082	0,524	126,0	0,90
5x10	20,3	854	1,83	60,0	3,10
5x16	24,0	1271	1,15	80,0	2,00
5x25	29,0	1917	0,727	101,0	1,30
5x35	29,05	2496	0,524	126,0	0,90

(1) Maximum intensities valid for cables set up on a shelf at a temperature of 30° C. Intensities and voltage drops of the two or three-conductor cables correspond to a single-phase current and those of the four or five-conductor cables to a three-phase current.