

ساختار سیم

■ ساختار لایه ها:

■ جنس و کلاس هادی:

Class 1 = Bare solid copper wire

■ جنس عایق:

PVC

■ جنس شیلد:

Plastic coated aluminum foil + solid copper drain wire Overall aluminum foil

■ جنس روکش:

PVC, Green

کاربرد

■ با افزایش تقاضا جهت مدیریت ساختمانهای هوشمند کابل KNX برای برقراری ارتباط در سیستم های مدیریت ساختمان طراحی شده است و همچنین می تواند برای کنترل نور، تهویه مطبوع، پرده، حرارت و صدا استفاده شود.

مشخصات فنی

کابل های KNX

■ محدوده دمایی:

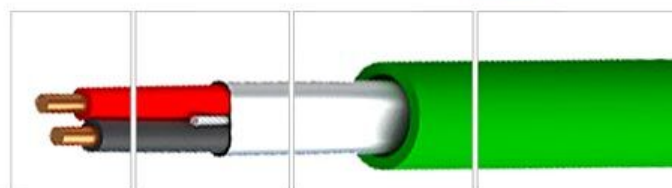
-35 تا +70 درجه سانتیگراد

■ ابعاد کابل:

mm - 2x2x0,8: red and black, white and yellow 0,80

■ فرم کابل:

wires twisted to a quad 4



رسانا کابل

کابل KNX به عنوان ارتباط یک سیستم مدیریتی در نصب و راه اندازی برق ساختمان است
کنترل سیستم های نظیر روشنایی
گرمایش، تهویه مطبوع، پرده، حرارت و صدا
هشدار دهنده

کابل KNX شرکت رسانا کابل

- قابل استفاده برای کنترل مکانیزه انواع ساختمان هوشمند
- مناسب برای تمام برنامه های کاربردی در کنترل خانه و ساختمان ها و ادارات و مراکز خرید
- کارکرد قابل اعتماد و سازگار با انواع سیستم های هوشمند ساختمان

**KNX
CABLE**



Aluminum Overhead Covered Conductors

(CC , CCT)



Technical Data

XLPE single core, covered aluminum conductor for electrical power distribution.

- Temperature range:
-30 to +70 °C
- Nominal voltage:
CC type: 1 to 33 KV
CC type: 20 and 33 KV
- Test voltage:
10 KV (AC)
- Minimum bending radius:
20 x cable diameter
- Main standard:
Tavanir spec.
- Cable code:
CC
CCT

Cable Structure

- Conductor material:
All aluminum alloy conductor (AAAC) or aluminum conductor steel reinforced (ACSR).
- Conductor covering:
Black XLPE insulation with 3 mm thickness for all sizes of CC type cables, 5.5 mm thickness for all size of CCT 20 KV and 8 mm thickness for all size of CCT 33 KV.
- Outer jacket:
Black HDPE with 0.8 mm thickness and 2.5 to 3 percent carbon black content for UV resistance only for CCT type of cables.



Aluminum Overhead Covered Conductors (CC , CCT)

Nominal Cross Section of Conductors (mm ²)	No. & Nominal Diameter of Conductor (mm)	Conductor Diameter (mm)	Cable Diameter (mm)	Max. Conductor Resistance at 20 °C (Ω / Km)	Approx. Weight (Kg / Km)
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AAAC - CC

50	7 X 2.95	8.4	13	0.5950	205
70	7 X 3.61	10.2	16.8	0.4371	272
120	19 X 2.8	13.2	17.8	0.2459	425
185	19 X 3.48	16.8	21.1	0.1587	508

AAAC - CC 20 KV

70	7 X 3.75	11.3	23	0.43	635
120	7 X 4.75	14.3	26	0.268	845
185	19 X 3.5	17.5	29	0.183	1105

AAAC - CC 33 KV

70	7 X 3.75	11.3	28.5	0.43	900
120	7 X 4.75	14.3	31.5	0.268	1145
185	19 X 3.5	17.5	34.5	0.183	1440

ACSR - CC

Conductor Name	Conductor Aluminum No. x Dia. (mm)	Construction Steel No. x Dia. (mm)	Conductor Diameter (mm)	Cable Diameter (mm)	Max. Conductor Resistance at 20 °C (Ω / Km)	Approx. Weight (Kg / Km)
Fox	6 x 2.79	1 x 2.79	8.4	20.2	0.1192	670
Mink	6 x 3.66	1 x 3.66	11	22.5	0.0965	827
Hyena	7 x 4.39	7 x 1.93	14.6	26	0.0722	1106
Wolf	30 x 2.59	7 x 2.59	18.2	29.1	0.0578	1382



Technical Data

High frequency coaxial cables, to be used in high frequency transmissions.

- ▣ Minimum bending radius:
10 x cable diameter
- ▣ Temperature range:
-30 to +70 °C
- ▣ Minimum insulation resistance:
20,000 M Ω .Km
- ▣ Standard:
JIS C 3501
MIL C 17
IEC 60096

Cable Structure

- ▣ Conductor material:
Bare or tinned copper conductor according to IEC 60228, class 1 (solid), class 2 (standard), class 5 (flexible).
- ▣ Insulation:
Polyethylene, solid or foamed.
- ▣ Shield:
Bare or tinned copper braid.
- ▣ Outer sheath:
Compound type of PVC.



High Frequency Coaxial Cables

Cable Type	No. & Nominal Diameter of Conductors (mm)	Nominal Diameter Over Insulation (mm)	Conductor Material	Insulation Material	No. of Braided Layers	Impedance (Ω)	Attenuation at 10 MHz (dB)	Outer Diameter (mm)	Approx. Weight (Kg / Km)
2.5C - 2V	1 X 0.4	2.4	Copper	PE	1	75	52	4	23
3C - 2V	1 X 0.5	3	Copper	PE	1	75	42	5.5	41
4.5C - 2V	1 X 1	4.5	Copper	Foamed PE	1	75	22	6.5	47
5C - 2V	1 X 0.8	5	Copper	Foamed PE	1	75	27	7.5	72
3C - 2W	1 X 0.5	3	Copper	PE	2	75	42	6.5	68
5C - 2W	1 X 0.8	5	Copper	PE	2	75	27	8.4	101
RG - 8 / U	7 X 0.72	6.4	Copper	PE	1	50	6.8	9.5	128
RG - 11 / U	7 X 0.4	7.3	Tinned Copper	PE	2	75	7	10.3	140
RG - 58 / U	19 X 0.18	2.95	Tinned Copper	PE	1	50	17	5	38
RG - 59	1 X 0.60	3.7	Copper	PE	2	75	11.5	6.2	57

Unscreened, Rigid, Fixed Installation Control Cables

(NYY - J , NYY - JZ)



Technical Data

Control cables without screen with solid or stranded conductor, PVC insulated and PVC sheathed.

- ✦ Temperature range:
-30 to +70 °C
- ✦ Nominal voltage U_0 / U :
0.6 / 1 kV
- ✦ Test voltage:
3.5 kV (AC)
- ✦ Minimum bending radius:
12 x cable diameter
- ✦ Main standard:
IEC 60502 - 1
- ✦ Cable code:
IEC 60502
NYY - J
NYY - JZ

Cable Structure

- ✦ Conductor material:
Bare copper conductor according to IEC 60228, class 1 (solid) or class 2 (standard).
- ✦ PVC core insulation:
Compound type of PVC / A.
- ✦ Core insulation colors:
Up to 5 cores, color or number coding and for more than 5 cores number coded imprints.
For 3 or more cores the green / yellow earth core is the last core in the outer layer.
- ✦ PVC inner covering.
- ✦ PVC outer sheath:
Compound type of PVC / ST1.
- ✦ Sheath color is normally black.

Unscreened, Rigid, Fixed Installation Control Cables (NYY - J , NYY - JZ)

No. & Nominal Cross Section of Conductors (mm ²)	Nominal Insulation Thickness (mm)	Nominal Inner Covering Thickness (mm)	Nominal Sheath Thickness (mm)	Average Outer Diameter (mm)	Max. Conductor Resistance at 20 °C (Ω / Km)	Approx. Weight (Kg / Km)
5 x 1.5	0.8	1	1.8	13.7	12.1	273
5 x 2.5	0.8	1	1.8	14.7	7.41	344
6 x 1.5	0.8	1	1.8	14.5	12.1	307
6 x 2.5	0.8	1	1.8	15.7	7.41	392
7 x 1.5	0.8	1	1.8	14.5	12.1	315
7 x 2.5	0.8	1	1.8	15.7	7.41	396
10 x 1.5	0.8	1	1.8	17.5	12.1	429
10 x 2.5	0.8	1	1.8	19.1	7.41	560
12 x 1.5	0.8	1	1.8	18	12.1	467
12 x 2.5	0.8	1	1.8	19.6	7.41	615
14 x 1.5	0.8	1	1.8	18.8	12.1	517
14 x 2.5	0.8	1	1.8	20.5	7.41	686
16 x 1.5	0.8	1	1.8	19.6	12.1	569
16 x 2.5	0.8	1	1.8	21.5	7.41	761
19 x 1.5	0.8	1	1.8	20.5	12.1	644
19 x 2.5	0.8	1	1.8	22.5	7.41	868
21 x 1.5	0.8	1	1.8	21.5	12.1	726
21 x 2.5	0.8	1	1.8	23.6	7.41	980
24 x 1.5	0.8	1	1.8	23.5	12.1	841
24 x 2.5	0.8	1	1.8	25.9	7.41	1137
30 x 1.5	0.8	1	1.8	24.7	12.1	984
30 x 2.5	0.8	1	1.8	27.3	7.41	1345
37 x 1.5	0.8	1	1.8	26.5	12.1	1191
37 x 2.5	0.8	1	1.9	29.5	7.41	1649

► Any number of conductors, up to 61 x 2.5, can be manufactured as per customer request.

Self Supporting Aluminum Overhead Cables

(NA2X - T)



Technical Data

Aluminum conductor XLPE insulated overhead cables for electrical power distribution.

- Temperature range:
-30 to +90 °C
- Nominal voltage:
0.6 / 1 kV
- Minimum bending radius:
10 x cable diameter
- Main standard:
Tavanir spec.
- Cable code:
NA2X - T

Cable Structure

5 core cables:

- Conductor:
Phase conductors compacted aluminum (AAC) stranded acc. to ASTM B231
- Null and messenger:
AAAC conductor
- Insulation:
Black XLPE insulation with 2.5 to 3 percent carbon black content for UV resistance.

6 core cables:

- Conductor:
Compacted aluminum (AAC) stranded acc. to ASTM B231
- Messenger:
7 strands galvanized high carbon steel wires.
- Insulation:
Black XLPE insulation for phase, lighting and null conductors and black HDPE or XLPE insulation for messenger with 2.5 to 3 percent carbon black content for UV resistance.

RASANA CABLE



Self Supporting Aluminum Overhead Cables (NA2X - T)

5 core cables

Cable Size	Conductor Construction			Conductor Diameter			Insulation Thickness			Cable dia (mm)	Approx. Weight (Kg / Km)
	Phase No.xdia	Lighting No.xdia	Null & Messenger No.xdia	Phase	Lighting	Null & Messenger	Phase	Lighting	Null & Messenger		
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		
3x35+16+50	7 x 2.6	7 x 1.72	7 x 3.15	6.8-7.3	4.6-4.8	9.2-9.6	1.6	1.2	1.6	33	684
3x50+16+50	7 x 3	7 x 1.72	7 x 3.15	7.9-8.4	4.6-4.8	9.2-9.6	1.6	1.2	1.6	36	803
3x70+16+70	19 x 2.2	7 x 1.72	7 x 3.61	9.7-10.2	4.6-4.8	10.7-11	1.8	1.2	1.6	41	1083
3x95+25+70	19 x 2.6	7 x 2.2	7 x 3.61	11-12	5.8-6.1	10.7-11	1.8	1.4	1.6	44	1362
3x120+25+70	19 x 2.83	7 x 2.2	7 x 3.61	12-13	5.8-6.1	10.7-11	1.8	1.4	1.6	46	1575

6 core cables

		Conductor Construction				Conductor Diameter				Insulation Thickness					
Cable Size	Phase	Lighting	No x dia	Null	Messenger	Phase	Lighting	Null	Messenger	Phase	Lighting	Null	Messenger	Cable dia	Approx. Weight
	No x dia	No x dia	No x dia	No x dia	No x dia	No x dia	No x dia	No x dia	No x dia	No x dia	No x dia	No x dia	No x dia	No x dia	No x dia
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm) x Kg / Km
3x35+16+25-25	7 x 2.68	7 x 1.73	7 x 2.22	7 x 1.93	7.1	4.6	6.1	5.8	1.3	1.1	1.3	1.1	28	729	
3x50+16+35-25	7 x 3.09	7 x 1.73	7 x 2.65	7 x 1.93	8.2	4.8	7.1	5.8	1.5	1.1	1.3	1.1	31	905	
3x70+16+50-25	19 x 2.22	7 x 1.73	7 x 3.09	7 x 1.93	9.8	4.8	8.2	5.8	1.5	1.1	1.5	1.1	34	1157	



Technical Data

TPR insulated cables for arc welding.

- ▣ Temperature range:
-30 to +70 °C
- ▣ Nominal voltage:
Nominal voltage is not designated.
- ▣ Test voltage:
2.5 KV (AC)
- ▣ Minimum bending radius:
6 x cable diameter
- ▣ Main standard:
IEC 245
- ▣ Cable code:
245 IEC 81

Cable Structure

- ▣ Conductor material:
Annealed copper with specified diameter shown in column 2 of the following table.
- ▣ Separator:
Polyester tape that surrounds the conductor.
- ▣ Sheath:
TPR compound with min. tensile strength of 12 N / mm² with specified thickness shown in column 5 of the following table.
- ▣ Sheath color is normally black.



Arc Welding Electrode Cables

Nominal Cross Section of Conductors (mm ²)	Max. Conductor Diameter (mm)	Average Outer Diameter		Insulation Thickness (mm)	Max. Conductor Resistance at 20 °C (Ω / Km)	Approx. Weight (Kg / Km)
		Lower Limit (mm)	Upper Limit (mm)			
16	0.21	8.8	11	2.4	1.16	218
25	0.21	10.1	12.7	2.4	0.758	304
35	0.21	11.4	14.2	2.4	0.536	403
50	0.21	13.2	16.5	2.7	0.379	560
70	0.21	15.3	19.2	3	0.268	772
95	0.21	17.1	21.4	3.2	0.198	1016

Circular Lift Cables

(60227 IEC 71C)



Technical Data

Circular PVC sheathed lift cable and cable for flexible connections.

- ✦ Temperature range:
-30 to +70 °C
- ✦ Nominal voltage U_0 / U :
300 / 500 V for cables with conductors having nominal cross-sectional areas not exceeding 1 mm².
450 / 750 V for conductors larger than 1 mm².
- ✦ Test voltage:
2 KV (AC) for conductors up to and including 1 mm²
2.5 KV (AC) for conductors larger than 1 mm²
- ✦ Minimum bending radius:
8 x cable diameter
- ✦ Main standard:
IEC 60227
- ✦ Cable code:
60227 IEC 71 C

Cable Structure

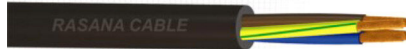
- ✦ Conductor Material:
Fine bare copper conductor according to IEC 60228, class 5 (flexible).
- ✦ PVC core insulation:
Compound type of PVC / D.
- ✦ Core insulation colors:
According to IEC 60227 - 1
- ✦ PVC outer sheath:
Compound type of PVC / ST5.
- ✦ Sheath color is normally black, or as per customer request.

• Circular Lift Cables (60227 IEC 71C)

No. & Nominal Cross Section of Conductors (mm ²)	Nominal Insulation Thickness (mm)	Normal Sheath Thickness (mm)	Average Outer Diameter (mm)	Max. Conductor Resistance at 20 °C (Ω / Km)	Approx. Weight (Kg / Km)
2 x 4	0.8	1	10.14	4.95	171
3 x 4	0.8	1	10.77	4.95	211
4 x 4	0.8	1.3	12.42	4.95	277
5 x 4	0.8	1.3	13.59	4.95	331
2 x 6	0.8	1	11.24	3.6	224
3 x 6	0.8	1.3	12.56	3.6	298
4 x 6	0.8	1.3	13.75	3.6	368
5 x 6	0.8	1.3	15.07	3.6	441
2 x 10	1	1.3	14.54	1.91	378
3 x 10	1	1.3	15.47	1.91	477
4 x 10	1	1.3	17.01	1.91	593
5 x 10	1	1.6	19.32	1.91	740
2 x 16	1	1.3	16.66	1.21	536
3 x 16	1	1.6	18.35	1.21	711
4 x 16	1	1.6	20.17	1.21	888
5 x 16	1	1.6	22.18	1.21	1070
2 x 25	1.2	1.6	20.56	0.78	824
3 x 25	1.2	1.6	21.91	0.78	1056
4 x 25	1.2	2	24.95	0.78	1371
5 x 25	1.2	2	27.44	0.78	1654

Ordinary Multi Core, PVC Insulated, PVC Sheathed, Flexible Cables

(H05VV - F , NYMHY)



Technical Data

Ordinary PVC insulated, PVC sheathed flexible cords and cables.

- ✦ Temperature range:
-30 to +70 °C
- ✦ Nominal voltage U_0 / U :
300 / 500 V
- ✦ Test voltage:
2.5 KV (AC)
- ✦ Minimum bending radius:
10 x cable diameter
- ✦ Main standard:
IEC 60227 & CENELEC HD 21.5
- ✦ Cable code:
60227 IEC 53
H05VV - F
NYMHY

Cable Structure

- ✦ Conductor material:
Fine bare copper conductor according to IEC 60228, class 5 (flexible).
- ✦ PVC core insulation:
Compound type of PVC / D.
- ✦ Core insulation colors:
According to IEC 60227 – 1
- ✦ PVC outer sheath:
Compound type of PVC / ST5.
- ✦ Sheath color is normally black, white or as per customer request.

Ordinary Multi Core, PVC Insulated, PVC Sheathed, Flexible Cables (H05VV - F , NYMHY)

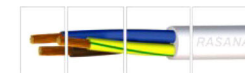
No. & Nominal Cross Section of Conductors (mm ²)	Nominal Insulation Thickness (mm)	Nominal Sheath Thickness (mm)	Average Outer Diameter (mm)		Max. Conductor Resistance at 20 °C (Ω / Km)	Approx. Weight (Kg / Km)
			Min.	Max.		
2 x 0.75	0.6	0.8	5.7	7.2	26	54
2 x 0.75 (Flat)	0.6	0.8	3.7 x 6	7.2 x 4.5	26	33
2 x 1	0.6	0.8	5.9	7.5	19.5	62
2 x 1.5	0.7	0.8	6.8	8.6	13.3	83
2 x 2.5	0.8	1	8.4	10.6	7.98	128
3 x 0.75	0.6	0.8	6	7.6	26	64
3 x 1	0.6	0.8	6.3	8	19.5	74
3 x 1.5	0.7	0.9	7.4	9.4	13.3	104
3 x 2.5	0.8	1.1	9.2	11.4	7.98	160
4 x 0.75	0.6	0.8	6.6	8.3	26	77
4 x 1	0.6	0.9	7.1	9	19.5	93
4 x 1.5	0.7	1	8.4	10.5	13.3	131
4 x 2.5	0.8	1.1	10.1	12.5	7.98	195
5 x 0.75	0.6	0.9	7.4	9.3	26	95
5 x 1	0.6	0.9	7.8	9.8	19.5	110
5 x 1.5	0.7	1.1	9.3	11.6	13.3	159
5 x 2.5	0.8	1.2	11.2	13.9	7.98	237
2 x 4 *	0.8	1.1	9.7	12.1	4.95	175
3 x 4 *	0.8	1.2	10.5	13.1	4.95	221
4 x 4 *	0.8	1.2	11.5	14.3	4.95	272
5 x 4 *	0.8	1.4	13	16.1	4.95	337

* According to CENELEC HD 21.5

NOTE: For all sizes the minimum insulation resistance at 70 °C & 500 V is more than 0.013 MΩ.Km.

Light Multi Core, PVC Insulated, PVC Sheathed, Flexible Cables

(H03VV - F , NYLHY)



Technical Data

Light PVC insulated, PVC sheathed flexible cords and cables.

- ✦ Temperature range:
-30 to +70 °C
- ✦ Nominal voltage U_0 / U:
300 / 300 V
- ✦ Test voltage:
2 KV (AC)
- ✦ Minimum bending radius:
10 x cable diameter
- ✦ Main standard:
IEC 60227 & CENELEC HD 21.5
- ✦ Cable code:
60227 IEC 52
H03VV - F
NYLHY

Cable Structure

- ✦ Conductor material:
Fine bare copper conductor according to IEC 60228, class 5 (flexible).
- ✦ PVC core insulation:
Compound type of PVC / D.
- ✦ Core insulation colors:
According to IEC 60227 – 1.
- ✦ PVC outer sheath:
Compound type of PVC / ST5.
- ✦ Sheath color is normally black, white or as per customer request.

Light Multi Core, PVC Insulated, PVC Sheathed, Flexible Cables (H03VV - F , NYLHY)

No. & Nominal Cross Section of Conductors (mm ²)	Nominal Insulation Thickness (mm)	Nominal Sheath Thickness (mm)	Average Outer Diameter (mm)		Max. Conductor Resistance at 20 °C (Ω / Km)	Approx. Weight (Kg / Km)
			Min.	Max.		
2 x 0.5	0.5	0.6	4.6	5.9	39	36
2 x 0.5 (Flat)	0.5	0.6	3 x 4.9	3.7 x 5.9	39	26
2 x 0.75	0.5	0.6	4.9	6.3	26	43
2 x 0.75 (Flat)	0.5	0.6	3.2 x 5.2	3.8 x 6.3	26	32
3 x 0.5	0.5	0.6	4.9	6.3	39	41
3 x 0.75	0.5	0.6	5.2	6.7	26	52
4 x 0.5 *	0.5	0.6	5.4	6.9	39	55
4 x 0.75 *	0.5	0.6	5.7	7.3	26	67

* According to CENELEC HD 21.5

NOTE: For all sizes the minimum insulation resistance at 70 °C & 500 V is more than 0.013 MΩ.Km.

Single Core, PVC Insulated, Rigid Conductors

(H05V - U , H07V - U , H07V - R , NYA)

RASANA CABLE

RASANA CABLE



Technical Data

PVC single core, non-sheathed with rigid conductor for general purposes.

- ✦ Temperature range:
-30 to +70 °C
- ✦ Nominal voltage U_0 / U :
300 / 500 V for conductors up to and including 1 mm².
450 / 750 V for conductors above 1 mm².
- ✦ Test voltage:
H05V – U: 2 KV (AC)
H07V – U: 2.5 KV (AC)
H07V – R: 2.5 KV (AC)
- ✦ Minimum bending radius:
10 x cable diameter
- ✦ Main standard:
IEC 60227
- ✦ Cable code:
60227 IEC 05 (H05V – U)
60227 IEC 01 (H07V – U)
60227 IEC 01 (H07V – R)
(NYA)

Cable Structure

- ✦ Conductor material:
Bare copper conductor according to IEC 60228, class 1 (solid) or class 2 (standard).
- ✦ PVC core insulation:
Compound type of PVC / C.
- ✦ Core insulation colors:
As per customer request.

Single Core, PVC Insulated, Rigid Conductors (H05V - U , H07V - U , H07V - R , NYA)

Nominal Cross Section of Conductors (mm ²)	Class of Conductor	Nominal Insulation Thickness (mm)	Average Outer Diameter (mm)		Max. Conductor Resistance at 20 °C (Ω / Km)	Approx. Weight (Kg / Km)
			Min.	Max.		
0.5	1	0.6	1.9	2.3	36	8
0.75	1	0.6	2.1	2.5	24.5	11
1	1	0.6	2.2	2.7	18.1	13
1.5	1	0.7	2.6	3.2	12.1	19
1.5	2	0.7	2.7	3.3	12.1	21
2.5	1	0.8	3.2	3.9	7.41	30
2.5	2	0.8	3.3	4	7.41	33
4	1	0.8	3.6	4.4	4.61	44
4	2	0.8	3.8	4.6	4.61	48
6	1	0.8	4.1	5	3.08	62
6	2	0.8	4.3	5.2	3.08	67
10	1	1	5.3	6.4	1.83	104
10	2	1	5.6	6.7	1.83	111
16	2	1	6.4	7.6	1.15	169
25	2	1.2	8.1	9.7	0.727	264
35	2	1.2	9	10.9	0.524	354
50	2	1.4	10.6	12.8	0.387	484
70	2	1.4	12.1	14.6	0.268	677
95	2	1.6	14.1	17.1	0.193	933
120	2	1.6	15.6	18.8	0.153	1207
150	2	1.8	17.3	20.9	0.124	1486
185	2	2	19.3	23.3	0.0991	1862
240	2	2.2	22	26.6	0.0754	2436
300	2	2.4	24.5	29.6	0.0601	3047
400	2	2.6	27.5	33.2	0.042	3879

NOTE: For all sizes the minimum insulation resistance at 70 °C & 500 V is more than 0.015 MΩ.Km.

Single Core, PVC Insulated, Flexible Conductors

(H05V - K , H07V - K , NYAF)

RASANA CABLE



Technical Data

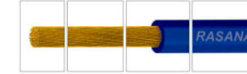
PVC single core, non-sheathed with flexible conductor for general purposes.

- ✦ Temperature range:
flexing: -5 to +70 °C
fixed installations: -30 to +70 °C
- ✦ Nominal voltage U_0 / U :
300 / 500 V for conductors up to and including 1 mm².
450 / 750 V for conductors above 1 mm².
- ✦ Test voltage:
H05V – K: 2 KV (AC)
H07V – K: 2.5 KV (AC)
- ✦ Minimum bending radius:
10 x cable diameter
- ✦ Main standard:
IEC 60227
- ✦ Cable code:
60227 IEC 06 (H05V – K)
60227 IEC 02 (H07V – K)
(NYAF)

Cable Structure

- ✦ Conductor material:
Bare copper conductor according to IEC 60228, class 5 (flexible).
- ✦ PVC core insulation:
Compound type of PVC / C.
- ✦ Core insulation colors:
As per customer request.

RASANA CABLE



Single Core, PVC Insulated, Flexible Conductors (H05V - K , H07V - K , NYAF)

Nominal Cross Section of Conductors (mm ²)	Nominal Insulation Thickness (mm)	Average Outer Diameter (mm)		Max. Conductor Resistance at 20 °C (Ω / Km)	Approx. Weight (Kg / Km)
		Min.	Max.		
0.5	0.6	2.1	2.5	39	9
0.75	0.6	2.2	2.7	26	11
1	0.6	2.4	2.8	19.5	14
1.5	0.7	2.8	3.4	13.3	20
2.5	0.8	3.4	4.1	7.98	31
4	0.8	3.9	4.8	4.95	46
6	0.8	4.4	5.3	3.3	65
10	1	5.7	6.8	1.91	109
16	1	6.7	8.1	1.21	164
25	1.2	8.4	10.2	0.78	252
35	1.2	9.7	11.7	0.554	343
50	1.4	11.5	13.9	0.386	490
70	1.4	13.2	16	0.272	679
95	1.6	15.1	18.2	0.206	893
120	1.8	16.7	20.2	0.161	1126
150	2	18.6	22.5	0.129	1409
185	2.2	20.6	24.9	0.106	1712
240	2.2	23.5	28.4	0.0801	2257

NOTE: For all sizes the minimum insulation resistance at 70 °C & 500 V is more than 0.013 MΩ.Km.