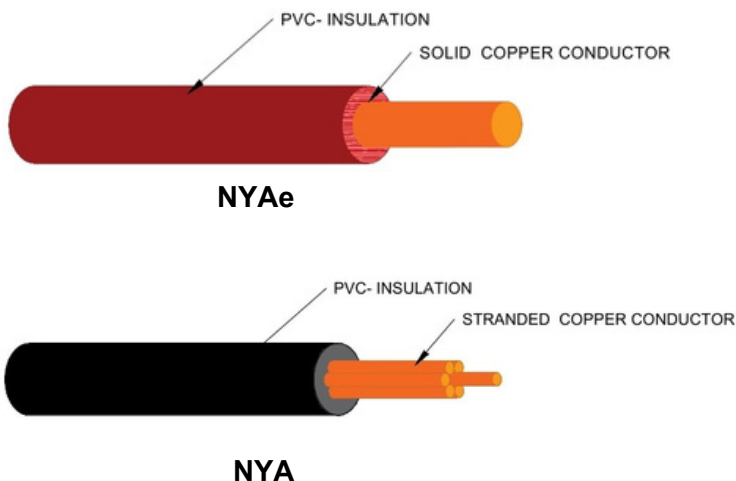


APPLICATION

Appropriate for both power and lighting circuits and for the wiring of buildings. This cable is designed for use in partially visible conduits and fully enclosed installation ducts and is particularly well-suited for the internal wiring of appliances.



CONSTRUCTION

Layer 1 . Conductor

- Solid copper Class 1 NYAe for H05V-U, H07V-U
- Stranded copper Class 2 NYA for H07V-R
- Shape: Circular:
Round stranded copper
Compact stranded copper $\geq 16 \text{ mm}^2$

Layer 2. Insulation

PVC

Jacketing color

Any color can be requested, including the standard colors below:

- Red
- Black
- Blue
- Yellow
- White
- Green/Yellow
- Gray
- Brown

Marking and Packing

- Coil/Drum: from 0.5 mm^2 to 50 mm^2
- Drum: $> 50 \text{ mm}^2$

TECHNICAL CHARACTERISTICS



Voltage Rating (U_0/U):

- sections up to 1 mm^2 : 300/500V
- sections $\geq 1.5 \text{ mm}^2$: 450/750V
- Test Voltage: For the rated voltage cable
300/500V: 1.5KV; for the rated voltage cable
450/750V: 2.5KV



Max continuous operating Temp: 70°C

Max Short circuit temperature: 160°C

Cable operating Temp Range: -15°C to $+55^\circ\text{C}$



Minimum Bending Radius Fixed:

- 5 x overall diameter for sections $\leq 16 \text{ mm}^2$
- 6 x overall diameter for sections $> 16 \text{ mm}^2$

STANDARDS

- IEC 60228 for copper conductor
- IEC 60227 / EN 50525-2-31
- Conductor acc. to IEC 60228
- In case of flame retardant/LSZH ,
IEC/EN 60332-1-2

NYA wire

H05V-U, H07V-U and H07V-R

Product Series Code: 1000

300/500 V
&
450/750 V

Dimensional Characteristics

Product Code	No. of wires	Section (mm ²)	Insulation thickness (mm)	Overall diameter (mm)	Approx weight (kg/km ±3%)
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NYAe (H05V-U)

1001	1	0.5	0.6	2.0	8
1002	1	0.75	0.6	2.2	11
1005	1	1	0.6	2.3	14

NYAe (H07V-U)

1006	1	1.5	0.7	2.8	19
1007	1	2.5	0.8	3.4	29
1008	1	4	0.8	3.9	45

NYA (H07V-R)

1009	1	1.5	0.7	2.9	21
1010	1	2	0.8	3.5	29
1011	1	2.5	0.8	3.6	33
1012	1	3	0.8	3.8	39
1013	1	4	0.8	4.1	49
1014	1	6	0.8	4.7	65
1015	1	10	1	6.1	114
1016	1	16	1	7.1	173
1017	1	25	1.2	8.4	265
1018	1	35	1.2	9.4	360
1019	1	50	1.4	10.8	510
1020	1	70	1.4	12.5	700
1021	1	95	1.6	14.4	947
1022	1	120	1.6	15.9	1182
1023	1	150	1.8	17.8	1478
1024	1	185	2	19.8	1823
1025	1	240	2.2	22.5	2287

NYA wire

H05V-U, H07V-U and H07V-R

Product Series Code: 1000

300/500 V
&
450/750 V

ELECTRICAL & MECHANICAL CHARACTERISTICS

Product Code	No. of wires	Section (mm ²)	Electrical resistance at 20°C (Ω/km)	Current carrying capacity (A)	Voltage drop cosφ=0.8 (V/A/Km)
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NYAe (H05V-U)

1001	1	0.5	36	8.7	
1002	1	0.75	24.5	11.2	
1005	1	1	18.1	13.5	

NYAe (H07V-U)

1006	1	1.5	12.1	17.5	23
1007	1	2.5	7.41	24	14.2
1008	1	4	4.61	32	8.9

NYA (H07V-R)

1009	1	1.5	12.1	17	23
1010	1	2	10.6	20	20
1011	1	2.5	7.41	24	14.2
1012	1	3	5.98	27	11.3
1013	1	4	4.61	32	8.9
1014	1	6	3.08	41	6.04
1015	1	10	1.83	57	3.68
1016	1	16	1.15	76	2.4
1017	1	25	0.727	96	1.59
1018	1	35	0.524	119	1.21
1019	1	50	0.387	144	0.95
1020	1	70	0.268	184	0.72
1021	1	95	0.193	223	0.58
1022	1	120	0.153	259	0.5
1023	1	150	0.124	299	0.45
1024	1	185	0.0991	341	0.4
1025	1	240	0.0754	403	0.36