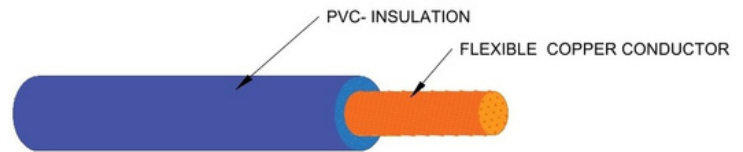


H05V-K/ and H07V-K / BS 6231

Product Series Code: 2000



APPLICATION

For Fixed installation in conduits on or under plaster. Suitable for protected installation in and on lighting facilities or control devices for voltages up to 750V AC or 1000V DC against ground.

CONSTRUCTION

Layer 1 . Conductor

- Class 5 flexible copper conductor
- Shape: Circular

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
- Green

Marking

- Coil/Drum: from 0.5 mm² to 35 mm²
- Drum: >35 mm²

TECHNICAL CHARACTERISTICS



Voltage Rating (U₀/U):

- sections up to 1mm² : 300/500V
- sections \geq 1.5mm² : 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°C



Minimum Bending Radius Fixed:

- 3 x overall diameter for sections \leq 16 mm²
- 4 x overall diameter for sections >16 mm²

STANDARDS

- IEC 60227
- Conductor acc. to IEC 60228
- In case of flame retardant/LSZH ,
IEC/EN 60332-1-2
- EN 50525-2-31
- For temperature, BS 6231 Type CK

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Dimensional Characteristics

Product Code	No. of wires	Section (mm ²)	Insulation thickness (mm)	Overall diameter (mm)	Approx weight (kg/km $\pm 3\%$)
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NYAF (H05V-K)

2001	1	0.5	0.7	2.1	8
2002	1	0.75	0.7	2.3	11
2003	1	1	0.7	2.6	14

NYAF (H07V-K)

2004	1	1.5	0.8	3.2	19
2005	1	2.5	0.8	3.6	29
2006	1	4	0.8	4.2	45
2007	1	6	0.8	5.0	65
2008	1	10	1	6.5	111
2009	1	16	1	7.6	167
2010	1	25	1.2	9.3	257
2011	1	35	1.2	10.6	349
2012	1	50	1.4	12.3	494
2013	1	70	1.4	13.8	672
2014	1	95	1.6	16.2	911
2015	1	120	1.6	18.2	1136
2016	1	150	1.8	20.6	1423
2017	1	185	2	23	1756
2018	1	240	2.2	25.4	2261

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ELECTRICAL & MECHANICAL CHARACTERISTICS

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

2001	1	0.5	39	8	
2002	1	0.75	26	11	
2003	1	1	19.5	13.5	

NYAF (H07V-K)

2004	1	1.5	13.3	17.5	26
2005	1	2.5	7.98	24	15
2006	1	4	4.95	32	9.5
2007	1	6	3.3	41	6.3
2008	1	10	1.91	57	3.7
2009	1	16	1.21	76	2.3
2010	1	25	0.78	96	1.5
2011	1	35	0.554	119	1.1
2012	1	50	0.386	144	0.74
2013	1	70	0.272	184	0.52
2014	1	95	0.206	223	0.4
2015	1	120	0.161	259	0.31
2016	1	150	0.129	299	0.25
2017	1	185	0.106	341	0.2
2018	1	240	0.0801	403	0.15