

Single cores

LiY, H05V-K, X05V-K, H07V-K, X07V-K



Application

LiY:

Switching strands for wiring of:

- Telecommunications devices
- Electronic Components in devices
- Telecommunications systems.

H05V-K:

PVC Single cores for:

- Internal wiring of devices
- Protected laying in and on lights.
- Signal systems in and on plaster in tubes

X05V-K:

- See H05V-K
- labelled with coloured stripes
- Without HAR approval.

H07V-K:

PVC Single cores for:

- Laying in conduits, exposed and buried in plaster and in closed installation ducts.
- Not for direct laying on racks, troughs and tubes (exception as equipotential binding conductor).

X07V-K:

- See H07V-K
- Labelled with coloured stripes
- Black with white numbers
- without HAR approval.

Note

- Lapp Kabel offers you these single cores in multiple variations
- More single core products can be found in this catalogue using the following overview.
- Heat resistant H07V2-K please see to UL(MTW)-CSA-HAR Style 10269.

Cable Make-up

- Fine wire strands
- PVC based core insulation
- colours or labelling see table
- Flame retardant acc. to (IEC 60332.1)

Lapp Kabel offers you the following types of packaging for single cores depending on product cross-section and quantity:

- coils
- spools „S“
- cardboard boxes small „K“
- drums
- cardboard boxes big „E“
- spools big „G“ on request



Technical Data



Peak working voltage:
LiY: 500 V (0,14 mm²)
900 V (0,25 mm²)

Rated voltage U₀/U:
H05V-K, X05V-K: 300/500 V
H07V-K, X07V-K: 450/750 V



Test voltage:
LiY: 1200 V (0,14 mm²)
2500 V (0,25 mm²)
H05V-K, X05V-K: 2000 V
H07V-K, X07V-K: 2500 V



Temperature range:
Fixed installation:
-30 °C to +80 °C



Insulation: Specific insulation resistance:
> 20 GΩ x cm



Conductor stranding:
fine wire in acc. with VDE 0295,
class 5 / IEC 60228
Cl.5 from 0,5 mm²



Core-Ident-Code:
see table



LiY: acc. to VDE 0812
H05V-K, H07V-K
to VDE 0281/HD 21
X05V-K, X07V-K:
acc. to VDE 0281



Current Rating:
acc. to VDE 0298 part 4

LiY single coloured PVC switch cable in accordance with VDE 0812



Part number	Cross section mm ²	Outer diameter mm approx.	Copper weight kg/km	m/spool
4125... S	0,14	1,1	1,35	500
4126... S	0,25	1,3	2,4	250

Please complete the part number with the following colour numbers:

000 green/yellow	003 brown	006 green	009 orange	104 red
001 black	004 beige	007 violet	010 transparent ¹	105 white
002 blue	005 yellow	008 pink	014 dark blue	106 grey

LiY PVC switch cable in accordance with VDE 0812 with coloured stripes



Part number	Cross section mm ²	Outer diameter mm approx.	Copper weight kg/km	m/spool
4502... 2 S	0,25	1,5	2,4	250

Please complete the part numbers with the following colour numbers:

20 black/green	24 blue/green	28 brown/green	32 yellow/white	36 violet/yellow	40 red/black	44 white/blue
21 black/red	25 blue/red	29 brown/white	33 green/black	37 violet/white	41 red/yellow	45 white/brown
22 black/white	26 blue/white	30 yellow/black	34 green/white	38 orange/black	42 red/white	46 white/red
23 blue/black	27 brown/black	31 yellow/red	35 violet/black	39 orange/white	43 white/black	47 grey/black

Further colour combinations on request

H05V-K single coloured PVC-wiring cable in accordance with VDE 0281 part 3



Part number	Cross section mm ²	Outer diameter mm approx.	Copper weight kg/km	m/coil	m/spool
4510... 1 S, R	0,5	2,1	4,8	-	250
4510... 2 S, R	0,75	2,4	7,2	100	250
4510... 3 S, R	1,0	2,6	9,6	100	250

Please complete the part number with the following colour numbers:

00 green/yellow	02 blue	04 red	06 grey	08 pink	10 transparent ¹	12 green ¹	16 ultramarineblue
01 black	03 brown	05 white	07 violet	09 orange	11 yellow ¹	14 dark blue	92 darkblue/white stripes ¹ (R only)

X05V-K PVC cable in accordance with VDE 0281 part 3 with coloured stripes



Part number	Cross section mm ²	Outer diameter mm approx.	Copper weight kg/km	m/spool
4512... 1 S	0,5	2,1	4,8	250
4512... 2 S	0,75	2,4	7,2	250
4512... 3 S	1,0	2,6	9,6	250

Please complete the part number with the following colour numbers:

20 black/green	24 blue/green	28 brown/green	32 yellow/white	36 violet/yellow	40 red/black	44 white/blue	92 darkblue/white stripes
21 black/red	25 blue/red	29 brown/white	33 green/black	37 violet/white	41 red/yellow	45 white/brown	
22 black/white	26 blue/white	30 yellow/black	34 green/white	38 orange/black	42 red/white	46 white/red	
23 blue/black	27 brown/black	31 yellow/red	35 violet/black	39 orange/white	43 white/black	47 grey/black	

Further colour combinations on request

¹ without HAR approval
Copper base: EUR 150/100kg

Single cores

LiY, H05V-K, X05V-K, H07V-K, X07V-K

H07V-K single coloured PVC cable in accordance with VDE 0281 part 3



Part number	Cross section mm ²	Outer diameter mm approx.	Copper weight kg/km	m/coil	m/drum
4520 .. 1 S, R	1,5	3,0	14,4	100	150
4520 .. 2 S, R	2,5	3,7	24,0	100	100
4520 .. 3 R	4,0	4,3	38,0	100	-
4520 .. 4 R	6,0	4,9	58,0	100	-
4520 .. 5 R + T	10,0	6,5	96,0	100	-
4520 .. 6 R + T	16,0	8,0	153,6	100	-
4521 .. 1 R + T	25,0	9,8	240,0	100	-
4521 .. 2 R + T	35,0	11,0	336,0	50	-
4521 .. 3 R + T	50,0	13,0	480,0	50	-
4521 .. 4 R + T	70,0	15,5	672,0	50	-
4521 .. 5 T	95,0	17,0	912,0	-	-
4521 .. 6 T	120,0	19,7	1152,0	-	-
4521 .. 7 T	150,0	21,3	1440,0	-	-
4521 .. 8 T	185,0	23,5	1776,0	-	-
4521 .. 9 T	240,0	27,4	2304,0	-	-

Please complete the part number with the following colour numbers:
00 green/yellow 02 blue approx. RAL 5015 04 red 06 grey 08 pink 10 transparent^{1,2)} 12 green¹⁾ 16 ultramarinblau

01 black 03 brown 05 white 07 violet 09 orange 11 yellow¹⁾ 14 dark blue approx. RAL 5010 192 darkblue/white

X07V-K PVC cable in accordance with VDE 0281 with coloured stripes part 3



Part number	Cross section mm ²	Outer diameter mm approx.	Copper weight kg/km	m/spool
4522 .. 1 S	1,5	3,0	14,4	150
4522 .. 2 S	2,5	3,7	24	100
4522 .. 3 S	4,0	4,3	38	100
4522 .. 4 S	6,0	4,9	58	on request

Please complete the part number with the following colour numbers:

20 black/green	24 blue/green	28 brown/green	32 yellow/white	36 violet/yellow	40 red/black	44 white/blue
21 black/red	25 blue/red	29 brown/white	33 green/black	37 violet/white	41 red/yellow	45 white/brown
22 black/white	26 blue/white	30 yellow/black	34 green/white	38 orange/black	42 red/white	46 white/red
23 blue/black	27 brown/black	31 yellow/red	35 violet/black	39 orange/white	43 white/black	47 grey/black

92 darkblue/white stripes (up to 4 mm)

Further colour combinations on request

X07V-K cable in accordance with VDE 0281 black with white number



Part number	Cross section mm ²	Outer diameter mm approx.	Copper weight kg/km	m/spool
4524 .. 1 S	1,5	3,0	14,4	150

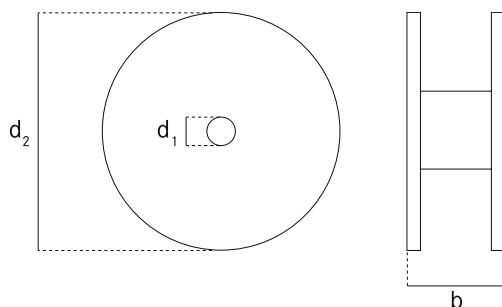
Please complete the part number with the following numbers:
01 = No. 1 02 = No. 2 aso.

Number printing on diameters 1,0 to 4,0 mm² on request.

¹⁾ For these colours no HAR-approval

²⁾ Not available on coils

Spool dimensions



Spool (type...S) up to 0,25 mm²:

- d_1 = 18 mm
- d_2 = 150 mm
- b = 85 mm

Spool (type...S) from 0,5 mm²:

- d_1 = 18 mm
- d_2 = 200 mm
- b = 85 mm

Spool (type...G):

- d_1 = 32 mm
- d_2 = 275 mm
- b = 185 mm