

VDE approved Cables H05VVC4V5-K (NYSLCY0-J)



Used as measuring, checking and control cable in machine tool manufacturing, plant engineering lines.
For unrestricted mobility without forced movement control and without exposure to tensile load.
Suitable in dry and moist rooms with low mechanical strain but not for outdoor installation.
These cables with copper screening are ideally suitable for interference-free data and signal transmission in measuring and control technology.

Technical Data:

Conductor Material	Copper, bare
Conductor class	Class 5 acc. to DIN VDE 0295, bzw. IEC 60228
core insulation	PVC
core identification	Acc. to DIN VDE 0293: Black cores with white numerals + earth
stranding	Cores twisted in layers
outer sheath	PVC
sheath colour	Grey (RAL 7001)
rated voltage [V]	300 / 500
testing voltage [V]	3000
conductor resistance	*
insulation resistance	20 MΩ x km
current carrying capacity	DIN VDE (see technical guidelines)
min. bending radius fixed [xd]	6 x d
min. bending radius moved [xd]	20 x d
working temp fixed min/max [C]	-40°C up to +70
working temp moved min/mac [C]	-5°C up to +70
temp at conductor max.	+70°C in operation +150°C in case of short-circuit
burning behaviour	VDE 0482-332-1-2/IEC 60332-1
Approvals	Oil resistance IEC 60811-2-1, EN 50525-2-51, VDE 0281-13

no. of cores x cross section	outer Ø ca. mm	copper weight kg/100m	weight kg/100m
3 x 0.75	9.00	5.10	13.00
3 x 1	9.60	7.00	14.50
3 x 0.50	8.50	4.20	10.90
3 x 1.50	10.40	9.20	17.60
3 x 2.50	12.20	12.90	23.00
4 x 0.75	10.20	6.30	16.50
4 x 1	10.70	8.30	17.80
4 x 0.50	9.30	5.60	12.50
4 x 1.50	11.20	11.60	20.40
4 x 2.50	13.30	15.70	31.20
5 x 0.75	10.90	7.00	19.00
5 x 1	11.40	10.10	20.70
5 x 0.50	10.30	6.20	15.40
5 x 1.50	12.00	12.50	26.50
5 x 2.50	14.50	19.00	36.80
7 x 0.75	12.30	10.50	24.70
7 x 1	13.00	12.60	25.60
7 x 0.50	11.70	8.40	20.00
7 x 1.50	13.90	16.80	41.00
7 x 2.50	16.70	25.20	45.20
12 x 0.75	14.80	16.10	32.90
12 x 1	16.60	19.40	42.70
12 x 0.50	13.90	12.10	27.80
12 x 1.50	17.40	25.50	49.60
12 x 2.50	21.40	40.90	73.00
18 x 0.75	17.80	22.00	47.80
18 x 1	19.40	26.50	57.80
18 x 0.50	16.80	16.40	40.70
18 x 1.50	20.40	35.80	70.20
18 x 2.50	25.40	54.40	105.00
25 x 0.75	21.20	27.80	64.90
25 x 1	22.80	35.00	78.00
25 x 0.50	19.90	20.80	53.00
25 x 1.50	24.60	46.00	94.00
25 x 2.50	30.00	87.60	139.00
34 x 0.50	21.80	29.40	62.50

no. of conductors x cross section	outer dia. mm	approx weight kg/100m	weight kg/100m
34 x 0.75	23.60	37.00	81.00
34 x 1	24.80	47.40	90.50
34 x 1.50	27.00	63.00	113.00
34 x 2.50	33.60	116.00	186.00
50 x 0.50	25.90	47.80	95.60
50 x 0.75	27.00	57.20	117.20
50 x 1	29.70	70.00	127.50
50 x 1.50	32.80	107.20	184.00
50 x 2.50	38.40	160.00	267.20
60 x 0.50	27.20	51.00	114.40
60 x 0.75	29.60	64.50	137.00
60 x 1	31.80	87.40	148.00
60 x 1.50	37.00	127.10	190.00
61 x 2.50	42.00	190.20	308.50

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