



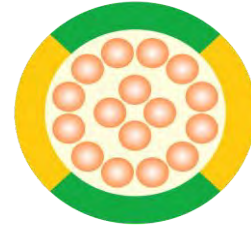
General Power Cable

Good quality & Good service based on reasonable prices.

- + OEM customized production according to your requirements.
- + Standardized products and services according to our own brand.



H05V-K / H07V-K Flexible Cable



Application:

PVC panel wiring for use in the switch control, relay and instrumentation panels of power switchgear and for purposes such as internal connectors in rectifier equipment, motor starters and controllers.

Cable Standards:

EN 50525-2-31, EN 60228
Flame Retardant according to IEC/EN 60332-1-2

Product Description:

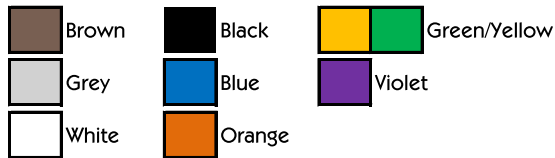
Conductor	Class 5 flexible copper
Insulation	PVC (Polyvinyl Chloride)

Characteristics:

Voltage Rating Uo/U	H05V-K: 300/500V
	H07V-K: 450/750V
Temperature Rating	-30°C to +70°C
	-5°C to +70°C
Minimum Bending Radius	Fixed: 6 x overall diameter

Core Identification:

1.5mm² & 2.5mm²



4mm² upto 300mm²



400mm², 500mm² & 630mm²



Should not be installed at temperatures below 0°C or above +40°C



H05V-K Dimensions:

Nominal Cross Sectional Area (mm ²)	Nominal Cross Sectional Area	Nominal Overall Diameter Area (mm ²)	NOMINAL WEIGHT kg/km
H05V-K0.5	0.5	2.2	9.0
H05V-K0.8	0.8	2.4	11.0
H05V-K1.0	1.0	2.5	14.0

H07V-K Dimensions:

Nominal Cross Sectional Area (mm ²)	Nominal Cross Sectional Area (mm ²)	Nominal Overall Diameter Area (mm ²)	NOMINAL WEIGHT kg/km
H07V-K1.5	1.5	2.9	20.0
H07V-K2.5	2.5	3.6	31.0
H07V-K4.0	4.0	4.1	46.0
H07V-K6.0	6.0	4.7	75.0
H07V-K10	10.0	6.1	125.0
H07V-K16	16.0	7.3	199.0
H07V-K25	25.0	9.0	299.0
H07V-K35	35.0	10.2	421.0
H07V-K50	50.0	12.1	539.0
H07V-K70	70.0	13.8	730.0
H07V-K95	95.0	16.3	973.0

Conductors:

Nominal Cross Sectional Area (mm ²)	Maximum Diameter Of Wires In Conductor (mm)	Maximum Resistance Of Conductor At 20°C	
		Plain Wires	Metal-Coated Wires
0.50	0.21	39.000	40.100
0.75	0.21	26.000	26.700
1.00	0.21	19.500	20.000
1.50	0.26	13.300	13.700
2.50	0.26	7.980	8.210
4.00	0.31	4.950	5.090
6.00	0.31	3.300	3.390
10.00	0.41	1.910	1.950
16.00	0.41	1.210	1.240
25.00	0.41	0.780	0.795
35.00	0.41	0.554	0.565
50.00	0.41	0.386	0.393
70.00	0.51	0.272	0.277
95.00	0.51	0.206	0.210

The above table is in accordance with EN 60228

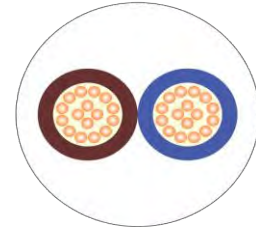


Current Carrying Capacity

Nominal Cross Sectional Area	In A Thermal Insulated Wall Amps		On A Wall Amps		In Free Air Amps
	2 Core	3 Core	2 Core	3 Core	1 Core
0.50	-	-	-	-	-
0.75	-	-	-	-	15
1.00	-	-	-	-	19
1.50	14.5	13.5	17.5	15.5	24
2.50	19.5	18	24	21	32
4.00	26	24	32	28	42
6.00	34	31	41	36	54
10.00	46	42	57	50	73
16.00	61	56	76	68	98
25.00	80	73	101	89	129
35.00	99	89	125	110	158
50.00	119	108	151	134	198
70.00	151	136	192	171	245
95.00	182	164	232	207	292



H03VV-F Flexible Cable



Application:

PVC Flex cable is used as an electrical supply to many household appliances such as refrigerators, washing machines and spin dryers.
 Plain annealed flexible copper conductors, PVC insulated, PVC outer sheath.
 Not advised for outdoor use.
 Available in 100M reels

Cable Standards:

EN 50525-2-11, EN 60228
 Flame Retardant according to IEC/EN 60332-1-2

Product Description:

Conductor	Plain annealed flexible stranded copper conductor class5
Insulation	Polyvinyl Chloride (PVC)
Sheath	Polyvinyl Chloride (PVC)

Characteristics:

Voltage Rating U ₀ /U	H05V-K: 300/500V
Temperature Rating	+5°C to +70°C
Minimum Bending Radius	Fixed: 6 x overall diameter

Core Identification:

- 2 Core: Blue Brown
- 3 Core: Blue Brown Green/Yellow
- 4 Core: Brown Black Grey Green/Yellow
- 5 Core: Brown Black Grey Blue Green/Yellow

*E3184Y Core Identification:

- 4 Core: Brown Black Grey Green/Yellow

Should not be installed at temperatures below 0°C



Dimensions:

Zion Code	No. Of Cores	Nominal Cross Sectional Area(mm ²)	Nominal Thickness Of Insulation (mm)	Nominal Thickness Of Sheath (mm)	Nominal Overall Diameter (mm)	Nominal Weight (mm)
H03VV-F2x0.5	2	0.5	0.50	0.6	5.0	37.0
H03VV-F2x0.75	2	0.75	0.50	0.6	5.5	46.0
H03VV-F3x0.5	3	0.5	0.50	0.6	5.3	44.0
H03VV-F3x0.75	3	0.75	0.50	0.6	5.8	55.0
H03VV-F4x0.5	4	0.5	0.50	0.6	5.8	54.0

Conductors:

Nominal Cross Sectional Area(mm ²)	Maximum Diameter Of Wires In Conductor	MAXIMUM RESISTANCE OF CONDUCTOR AT 60°C ohms/km
		Plain Wires
0.5	0.21	39.0
0.75	0.21	26.0

The above table is in accordance with EN 60228
Class 5 Flexible Copper Conductors for Single Core and Multi-Core Cables

Current Carrying Capacity

Nominal Cross Sectional Area (mm ²)	Current Carrying Capacity Amps		Maximum Mass Supportable By Twin Flexible Cord Kg
	Single-Phase AC	Three-Phase AC	
0.50	3.00	3.000	2
0.75	6.00	6.000	3

The above table is in accordance with Table 4F3A of the 17th Edition of IEE Wiring Regulations.

Voltage Drop:

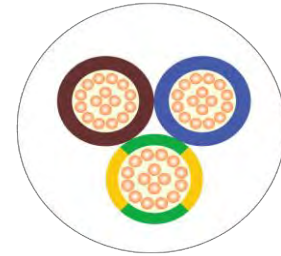
Nominal Cross Sectional Area (mm ²)	DC Or Single-phase AC (mV/A/m)	Three-phase AC (mV/A/m)
0.5	93.0	80.0
0.75	62.0	54.0

Conductor operating temperature: 60°C

The above table is in accordance with Table 4F3B of the 18th Edition of IEE Wiring Regulations BS7671 and IEC 60364-5-52.



H05VV-F Flexible Cable



Application:

Ordinary duty PVC cable for use in domestic appliances, kitchens and offices. For use with light portable appliances such as table lamps and office equipment. Generally unsuitable for outdoor use or industrial applications.

Cable Standards:

EN 50525-2-11, EN 60228
Flame Retardant according to IEC/EN 60332-1-2

Product Description:

Conductor	Class 5 flexible copper
Insulation	Polyvinyl Chloride (PVC)
Sheath	Polyvinyl Chloride (PVC)

Characteristics:

Voltage Rating Uo/U	H05V-K: 300/500V
Temperature Rating	+5°C to +70°C
Minimum Bending Radius	Fixed: 8 x overall diameter

Core Identification:

2 Core: Blue Brown

3 Core: Blue Brown Green/Yellow

4 Core: Brown Black Grey Green/Yellow

5 Core: Brown Black Grey Blue Green/Yellow

*E3184Y Core Identification:

4 Core: Brown Black Grey Green/Yellow

* Should not be installed at temperatures below 0°C



Dimensions:

Zion Code	No. Of Cores	Nominal Cross Sectional Area(mm ²)	Nominal Thickness Of Insulation (mm)	Nominal Overall Diameter (mm)	Nominal Weight (mm)
H05VV-F2x0.75	2	0.75	0.6	6.3	57
H05VV-F2x1	2	1.00	0.6	6.6	65
H05VV-F2x1.5	2	1.50	0.7	7.4	84
H05VV-F2x2.5	2	2.50	0.8	9.1	130
H05VV-F3x0.75	3	0.75	0.6	6.7	68
H05VV-F3x1	3	1.00	0.6	7.0	78
H05VV-F3x1.5	3	1.50	0.7	8.1	108
H05VV-F3x2.5	3	2.50	0.8	9.9	163
H05VV-F3x4	3	4.00	0.8	11.3	227
H05VV-F4x0.75	4	0.75	0.6	7.3	82
H05VV-F4x1	4	1.00	0.6	7.9	100
H05VV-F4x1.5	4	1.50	0.7	9.0	134
H05VV-F4x2.5	4	2.50	0.8	10.8	201
H05VV-F5x0.75	5	0.75	0.6	8.1	102
H05VV-F5x1	5	1.00	0.6	8.6	120
H05VV-F5x1.5	5	1.50	0.7	10.0	166

Conductors:

Nominal Cross Sectional Area(mm ²)	Maximum Diameter Of Wires In Conductor	MAXIMUM RESISTANCE OF CONDUCTOR AT 60°C
		ohms/km
		Plain Wires
0.75	0.21	26.00
1	0.21	19.50
1.5	0.26	13.30
2.5	0.26	7.98
4	0.31	4.95

The above table is in accordance with EN 60228
Class 5 Flexible Copper Conductors for Single Core and Multi-Core Cables

Current Carrying Capacity

Nominal Cross Sectional Area (mm ²)	Current Carrying Capacity Amps		Maximum Mass Supportabl By Twin Flexible Cord Kg
	Single-Phase AC	Three-Phase AC	
0.75	6.0	6.0	3
1	10.0	10.0	5
1.5	16.0	16.0	5
2.5	25.0	25.0	5
4	32.0	32.0	5

The above table is in accordance with Table 4F3A of the 17th Edition of IEE Wiring Regulations.



Voltage Drop:

Nominal Cross Sectional Area (mm ²)	DC Or Single-phase AC (mV/A/m)	Three-phase AC (mV/A/m)
0.75	62.0	54.0
1	46.0	40.0
1.5	32.0	27.0
2.5	19.0	16.0
4	12.0	10.0

Conductor operating temperature: 60°C

The above table is in accordance with Table 4F3B of the 18th Edition of IEE Wiring Regulations BS7671 and IEC 60364-5-52.



H03VVH2-F Flexible Cable



Application:

Light duty cable for use in domestic premises, kitchens and offices.

For use as pendant light drops and light supply leads.

Cable Standards:

EN 50525-2-11, EN 60228

Flame Retardant according to IEC/EN 60332-1-2

Product Description:

Conductor	Class 5 flexible copper
Insulation	Polyvinyl Chloride (PVC)
Sheath	Polyvinyl Chloride (PVC)

Characteristics:

Voltage Rating U _o /U	300/300V
Temperature Rating	+5°C to +70°C
Minimum Bending Radius	Fixed: 8 x overall diameter

Core Identification:

2 Core:  Blue  Brown

Sheath Colour

 White  Black



Dimensions:

Zion Code	No. Of Cores	Nominal Cross Sectional Area(mm ²)		Nominal Overall Diameter (mm)	Nominal Weight (mm)
H03VVH2-F2x0.5	2	0.50	0.6	3.35x5	30
H03VVH2-F2x0.75	2	0.75	0.6	3.5x5	37

Conductors:

Nominal Cross Sectional Area(mm ²)	Maximum Diameter Of Wires In Conductor	MAXIMUM RESISTANCE OF CONDUCTOR AT 60°C ohms/km	
		Plain Wires	Metal-Coated Wires
0.5	0.21	39	40.1
0.75	0.21	26	36.7

The above table is in accordance with BS EN 60228 (previously BS 6360)

Current Carrying Capacity

Nominal Cross Sectional Area (mm ²)	Current Carrying Capacity Amps		Maximum Mass Supportable By Twin Flexible Cord Kg
	Single-Phase AC	Three-Phase AC	
0.5	3.0	3.0	2
0.755	6.0	6.0	3

The above table is in accordance with Table 4F3A of the 17th Edition of IEE Wiring Regulations.

Voltage Drop:

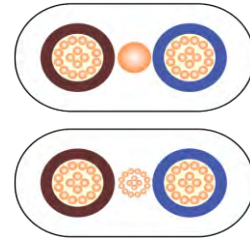
Nominal Cross Sectional Area (mm ²)	DC Or Single-phase AC (mV/A/m)	Three-phase AC (mV/A/m)
0.5	93.0	80.0
0.75	62.0	54.0

Conductor operating temperature: 60°C

The above table is in accordance with Table 4F3B of the 18th Edition of IEE Wiring Regulations BS7671 and IEC 60364-5-52.



Twin And Earth Cable



Application:

This cable has a bare protective conductor plus 1, 2 or 3 cores.
 Used for fixed installations in dry or damp premises clipped direct to surface, on trays or in free air.
 Where mechanical protection is required, it can be laid in conduit or trunking.

Cable Standards:

BSEN 50363-3, BS 6004
 Flame Retardant according to IEC/EN 60332-1-2









Product Description:

Conductor	RE: 1mm ² to 2.5mm ² : Class 1 solid copper
	RM: 4mm ² to 16mm ² : Class 2 stranded copper
Circuit Protection Conductor (Earth)	1mm ² to 2.5mm ² : Class 1 solid copper
	4mm ² to 16mm ² : Class 2 stranded copper
Insulation	Polyvinyl Chloride (PVC)
Sheath	Polyvinyl Chloride (PVC)

Characteristics:

Voltage Rating Uo/U	300/500V
Temperature Rating	-5°C to +70°C
Minimum Bending Radius	Fixed: 6 x overall diameter

Core Identification:

- 1 Core:  Brown
- 2 Core:  Brown  Blue
- 2 Core:  Brown  Blue
- 3 Core:  Brown  Blue  Black

Should not be installed at temperatures below 0°C or above +60°C



Dimensions:

Zion Code	No. Of Cores	Nominal Cross Sectional Area(mm ²)	Nominal Thickness Of Insulation (mm)	Nominal overall diameter (mm)	Nominal overall diameter (mm)	Nominal overall diameter (mm)	Nominal overall diameter (mm)	Nominal Weight Kg/km
TAEC2x1.0	2	1	1	1	0.6	0.9	4.35 x 7.95	68
TAEC2x1.5	2	1.5	1	1	0.7	0.9	4.85 x 8.90	87
TAEC2x2.5	2	2.5	1	1.5	0.8	1	5.65 x 10.65	120
TAEC2x4.0	2	4	2	1.5	0.8	1	6.30x 11.95	172
TAEC2x6.0	2	6	2	2.5	0.8	1.1	7.10x 13.70	235
TAEC2x10	2	10	2	4*	1	1.2	8.70x 17.25	373
TAEC2x16	2	16	2	6*	1	1.3	9.85 x 20.0	530
TAEC3x1.0	3	1	1	1	0,6	0.9	4.35 x 9.80	91
TAEC3x1.5	3	1.5	1	1	0.7	0.9	4.85 x 11.2	115

Conductors:

Nominal Cross Sectional Area (mm ²)	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km	
	Plain Wires	
1	18.1	
1.5	12.1	
2.5	7.41	

Class 2 Stranded Conductors for Single Core and Multi-Core Cables

Nominal Cross Sectional Area (mm ²)	Current Carrying Capacity Amps	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km	
		Annealed Copper Conductor	
		Circular	Plain Wires
4	7		4.61
6	7		3.08
10	7		1.83
16	7		1.15

The above table is in accordance with EN 60228



PVC insulated and PVC sheathed power and control cable



Construction:

Conductors	Annealed copper solid class 1(RE) acc. to EN 60228
Insulation	Special PVC compound type T11 acc to EN 50363-3
Sheath	Special PVC compound type TM1 acc to EN 50363-4-1

Characteristic:

Colour of sheath	Black, UV resistant	
Core identification		
	CYKY-J	CYKY-O
2-core:		blue, brown
3-core:	green-yellow, blue, brown	brown, black, grey
4-core:	green-yellow, brown, black, grey	blue, brown, black, grey
5-core:	green-yellow, blue, brown, black, grey	blue, brown, black, grey, black
7 and more:	green-yellow, other cores black with white numbering	black with white numbering
Maximum conductor operating temperature	+70°C	
Lowest ambient temperature for fixed installation	-40°C	
Lowest installation temperature	-5°C	
Maximum short-circuit conductor temperature	+160°C	
Minimum bending radius	6d for cables with diameter $\leq 20d$, 12d for cables with diameter $> 20mm$, d – overall diameter	
Dielectric test voltage 50Hz	2,5kV	

Fire Performance:

Flame retardant	EN 60332-1-2
Fire classification products and building elements related with Construction Products Regulation CPR)	Eca acc. to EN 13501-6

For fixed installation in interior premises, cable ducts, in the open air, in water – as permitted by the local building regulations – if no risk of any mechanical damage is to be expected

Standard length cable packing	500 or 1000m on drums. Other forms of packing and delivery are available on request
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Zion's Hot Types

Number and cross-sectional area of conductor	Approximate overall diameter	Approximate net weight of cables	Maximum conductor resistance at temperature 20°C
N x mm ²	mm	Kg/km	Ω/km
2x1,5	7,0	85	12,1
2x2,5	8,2	122	7,41
2x4	9,1	164	4,61
2x6	10,4	225	3,08
2x10	12,8	356	1,83
2x16	14,6	504	1,15
3x1,5	7,4	101	12,1
3x2,5	8,7	148	7,41
3x4	9,6	202	4,61
3x6	11,0	281	3,08
3x10	13,6	447	1,83
3x16	15,5	644	1,15
4x1,5	8,0	124	12,1
4x2,5	9,4	180	7,41
4x4	10,6	249	4,61
4x6	12,0	347	3,08
4x10	14,9	557	1,83
4x16	17,5	824	1,15
5x1,5	8,7	150	12,1
5x2,5	10,3	221	7,41
5x4	11,6	308	4,61
5x6	13,2	429	3,08
5x10	16,8	707	1,83
5x16	19,2	1023	1,15



Number and cross-sectional area of conductor	Approximate overall diameter	Approximate net weight of cables	Maximum conductor resistance at temperature 20°C
7x1,5	9,8	194	12,1
7x2,5	11,5	288	7,41
7x4	12,9	239	4,61
12x1,5	12,6	310	12,1
12x2,5	15,0	466	7,41
12x4	17,3	676	4,61
19x1,5	14,7	452	12,1
19x2,5	18,0	703	7,41
24x1,5	17,6	584	12,1
24x2,5	21,0	885	7,41
37x1,5	20,0	837	12,1
1 x 0.38	5.4	18	0.4
1 x 0.39	6.4	19	0.4
1 x 0.40	7.4	20	0.4
1 x 0.41	8.4	21	0.46
1 x 0.42	9.4	22	0.5
1 x 0.43	10.4	23	0.55
1 x 0.36	3.4	16	0.4
1 x 0.37	4.4	17	0.4
1 x 0.38	5.4	18	0.4
1 x 0.39	6.4	19	0.4
1 x 0.40	7.4	20	0.4
1 x 0.41	8.4	21	0.46
1 x 0.42	9.4	22	0.5
1 x 0.43	10.4	23	0.55

Current ratings

Operating temperature at conductor 70°C; ambient air temperature 30°C,
ground temperature 20°C depth 0,7m

Number of loaded cores	2		3, 4, 5	
	laying in ground		laying in air	
Cross-section, mm ²	Current ratings in Ampere (A)			
1,5	34	28	22	18,5
2,5	45	36	30	25
4	59	48	40	34
6	73	61	51	43
10	98	81	70	60
16	127	105	88	80

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Installation multi-core cables

Product Description:

Conductor	Solid plain copper
Insulation	PVC
sheath	PVC

Application:

The cable is designed for installation under plaster, in flat, concealed installation and for installation in conduits and cable ducts.

The cable is resistant to flame propagation according to the requirements of fire technical characteristics given acc. to Decree No.246/2001 Col.

At these cables you can easily recognize 2 main types: 3 × 1,5 mm² always with blue stripe and 3 × 2,5 mm² always with green stripe.

Installation of the product should only be carried out by personnel trained and qualified for electrical works. The product is designed according to recognized standards. Applicable rules of installation must be applied at all times.



Zion's Hot Types

Properties:			
Rated voltage	450/750 V	Colour of sheath	Black with blue or green stripe
Test voltage	2,5 kV	Flame spread resistance	IEC 60332-1; VDE 0482 T332-1-2
Maximal short-circuit temperature	+160 °C	CPR class	E _{ca}
Maximal conductor operating temperature	+70 °C	UV stability	Yes
Temperature range for handling	From -30 up to +70 °C	Packaging	Coils and drums
Minimal temperature for laying and manipulation	+5 °C	Certificate	
Minimal storage temperature	-30 °C	RoHS	Yes
Colour of insulation	HD 308 S2	REACH	Yes

**Mechanical properties:**

No. of cores and cross-section	Shape of conductor	Nominal insulation thickness	Nominal sheath thickness	Diameter approx.	Cable mass approx.	Bending radius
mm ²		mm	mm	mm	Kg/km	mm
3x1,5	RE	0,7	0,4	4,1x10,5	68.00	25.0
3x2,5	RE	0,8	0,4	4,8x12,6	104.00	29.0

Electrical properties:

No. of cores and cross-section	Shape of conductor	DC resistance at 20 °C (min.)	Current carrying cap. in air *)	Current carrying cap. in ground
mm ²		Ω/km	A	A
3x1,5	RE	12,531	18,5	28.00
3x2,5	RE	7,519	25.00	36.00

Note: Values of current carrying capacity in air at +30 °C.

● GLOBAL MARKET



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