

2941X / H05V-K / H07V-K

BS EN 50525-2-31 Flexible Wire

pro-POWER



RoHS
Compliant

Application:

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

Construction:

Conductor:

Class 5 flexible copper conductor according to BS EN 60228 (previously BS 6360)

Insulation:

PVC (Polyvinyl Chloride) Type T11 according to BS EN 50363

Cable Standards

BS EN 50525-2-31 (previously BS 6004, Cenelec HD21.3), BS EN/IEC 60332-1-2

Characteristics:

Voltage Rating (Uo/U)

H05V-K : 300/500V

H07V-K : 450/750V

Temperature Rating:

Fixed : -30°C to +70°C

Flexed : -5°C to +70°C

Minimum Bending Radius:

Fixed : 6 × overall diameter

Flexed : 12 × overall diameter

Sheath Colour:

Red, Black, Blue, Yellow, White, Green/Yellow, & Brown

Dimensions:

H05V-K

Part Number	Colour	Nominal Cross Sectional Area mm ²	No. of Strands × Strand Size mm ²	Nominal Overall Diameter mm	Nominal Weight kg/km
PP000454	Black	0.5	16 × 0.19	2.2	9
PP000455		0.75	24 × 0.19	2.4	11
PP000456		1	32 × 0.19	2.5	14
PP000459	Blue	0.5	16 × 0.19	2.2	9

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Part Number	Colour	Nominal Cross Sectional Area mm ²	No. of Strands × Strand Size mm ²	Nominal Overall Diameter mm	Nominal Weight kg/km
PP000460	Blue	0.75	24 × 0.19	2.4	11
PP000461		1	32 × 0.19	2.5	14
PP000464	Brown	0.5	16 × 0.19	2.2	9
PP000465		0.75	24 × 0.19	2.4	11
PP000466		1	32 × 0.19	2.5	14
PP000469	Green/Yellow	0.5	16 × 0.19	2.2	9
PP000470		0.75	24 × 0.19	2.4	11
PP000471		1	32 × 0.19	2.5	14
PP000474	Red	0.5	16 × 0.19	2.2	9
PP000475		0.75	24 × 0.19	2.4	11
PP000476		1	32 × 0.19	2.5	14
PP000479	White	0.5	16 × 0.19	2.2	9
PP000480		0.75	24 × 0.19	2.4	11
PP000481		1	32 × 0.19	2.5	14
PP000484	Yellow	0.5	16 × 0.19	2.2	9
PP000485		0.75	24 × 0.19	2.4	11
PP000486		1	32 × 0.19	2.5	14

H07V-K

Part Number	Colour	Nominal Cross Sectional Area mm ²	No. of Strands × Strand Size mm ²	Nominal Overall Diameter mm	Nominal Weight kg/km
PP000457	Black	1.5	30 × 0.24	2.9	20
PP000458		2.5	45 × 0.25	3.6	31
PP000462	Blue	1.5	30 × 0.24	2.9	20
PP000463		2.5	45 × 0.25	3.6	31
PP000467	Brown	1.5	30 × 0.24	2.9	20
PP000468		2.5	45 × 0.25	3.6	31
PP000472	Green/Yellow	1.5	30 × 0.24	2.9	20
PP000473		2.5	45 × 0.25	3.6	31
PP000477	Red	1.5	30 × 0.24	2.9	20
PP000478		2.5	45 × 0.25	3.6	31
PP000482	White	1.5	30 × 0.24	2.9	20
PP000483		2.5	45 × 0.25	3.6	31
PP000487	Yellow	1.5	30 × 0.24	2.9	20

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Conductors:

Class 5 Flexible Copper Conductors for Single Core and Multi-Core Cables

Nominal Cross Sectional Area mm ²	Maximum Diameter of Wires in Conductor mm	Maximum Resistance of Conductor at 20°C	
		Plain Wires Ω/km	Metal-Coated Wires Ω/km
0.5	0.21	39	40.1
0.75	0.21	26	26.7
1	0.21	19.5	20
1.5	0.26	13.3	13.7
2.5	0.26	7.98	8.21

Electrical Characteristics:

Current Carrying Capacity

Nominal Cross Sectional Area mm ²	In a Thermal Insulated Wall		On a Wall		In Free Air
	2 Core Amps	3 Core Amps	2 Core Amps	3 Core Amps	1 Core Amps
0.5	-	-	-	-	-
0.75	-	-	-	-	15
1	-	-	-	-	19
1.5	14.5	13.5	17.5	15.5	24
2.5	19.5	18	24	21	32

De-Rating Factors:

Ambient Temperature	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C	50°C	55°C	60°C
De-Rating Factor	1.22	1.17	1.12	1.06	1.00	0.94	0.87	0.79	0.71	0.61	0.50

Part Number Table

Description	Harmonised Type	Nominal Cross Sectional Area mm ²	Colour	Reel Length	Part Number
2491X / H05V-K / H07V-K BS EN 50525-2-31 Flexible Wire	H05V-K	0.5	Black	100m	PP000454
		0.75			PP000455
		1			PP000456
		0.5	Blue		PP000459
		0.75			PP000460

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Description	Harmonised Type	Nominal Cross Sectional Area mm ²	Colour	Reel Length	Part Number
2491X / H05V-K / H07V-K BS EN 50525-2-31 Flexible Wire	H05V-K	1	Blue	100m	PP000461
		0.5	Brown		PP000464
		0.75			PP000465
		1			PP000466
		0.5	Green/Yellow		PP000469
		0.75			PP000470
		1			PP000471
		0.5	Red		PP000474
		0.75			PP000475
		1			PP000476
		0.5	White		PP000479
		0.75			PP000480
		1			PP000481
		0.5	Yellow		PP000484
		0.75			PP000485
	1	PP000486			
	H07V-K	1.5	Black		PP000457
		2.5			PP000458
		1.5	Blue		PP000462
		2.5			PP000463
		1.5	Brown		PP000467
		2.5			PP000468
		1.5	Green/Yellow		PP000472
		2.5			PP000473
		1.5	Red		PP000477
		2.5			PP000478
		1.5	White		PP000482
		2.5			PP000483
1.5		Yellow	PP000487		

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