

2941X / H05V-K / H07V-K BS EN 50525-2-31 Flexible Wire

multicompPRO



**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

Newark.com/multicomp-pro
Farnell.com/multicomp-pro
Element14.com/multicomp-pro

multicompPRO

2941X / H05V-K / H07V-K BS EN 50525-2-31 Flexible Wire

multicompPRO

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

Newark.com/multicomp-pro
Farnell.com/multicomp-pro
Element14.com/multicomp-pro

multicompPRO

2941X / H05V-K / H07V-K BS EN 50525-2-31 Flexible Wire

multicompPRO

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 mm²	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

Newark.com/multicomp-pro
Farnell.com/multicomp-pro
Element14.com/multicomp-pro

multicompPRO

2941X / H05V-K / H07V-K BS EN 50525-2-31 Flexible Wire

multicompPRO

Description	Harmonised Type	Nominal Cross Sectional Area mm²	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

Important Notice : This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.

Newark.com/multicomp-pro
Farnell.com/multicomp-pro
Element14.com/multicomp-pro

multicompPRO