Application

PVC panel wiring is used in switch control, relay, and instrumentation panels of power switchgear. They serve purposes such as internal connectors in rectifier equipment, motor starters, and controllers. These wires are also suitable for home, industrial, and commercial use.

Performance

Electrical Performance (U_0/U):
Voltage rating: 300/500V
Testing voltage: 2000V
Chemical Performance: Resistant to chemicals and oil
Mechanical Performance:
Minimum bending radius: 5 x cable diameter
Terminal Performance:
Maximum service temperature: 70°C
Maximum short-circuit temperature: 140°C (max. 5s)
Minimum service temperature: -40°C
Lowest ambient temperature for fixed installation: -30°C
Lowest installation temperature: -5°C
Fire Performance: Flame non-propagation based on IEC 60332-1

Construction

Conductor: Annealed copper conductors comply with EN 60228
Class 1 conductor: Solid (H05V-U)
Class 2 conductor: Stranded (H05V-R)
Class 5 conductor: Flexible (H05V-K)
Insulation: PVC compound type TI 1
Color of Insulation: Blue, black, brown, yellow/green, or other colors

Specification

-BS EN 50525-2-31 Standard

Eastful Cable Lab

We have CNAS Accredited Facility to assure conformity assessment services with a focus on quality, expertise, and customer satisfaction.
CNAS has international mutual recognition among IAF, ILAC, APLAC and PAC.

Accreditation

We meet the requirements of ISO9001, ISO14001, ISO45001 and ISO50001 and our cables have certificate of CCC, RoHS, CASC, UL, cUL, TÜV Rhineland and CCS.

National Green Factory

Our facility has been awarded of National Green Factory by Ministry of Industry and Information Technology of China.
We are committed to the development of high-end, intelligent and green manufacturing industry.

*The overall energy consumption level of green factories is better than the energy efficiency benchmark level.

Technical Parameters

H05V-U						
Nominal Cross Section Area	No./Dia.of Wires	Insulation Thickness	Appro.O.D.	Approx. Weight	Max.Resistance of Conductor at 20℃	Min.Insulation Resistance at 70℃
mm^2	-	mm	mm	kg	Ω/km	MΩ/km
0.5	1/0.80	0.80	0.6	8.9	36.0	0.014
0.75	1/0.97	0.97	0.6	11.5	24.5	0.013
1	1/1.13	1.13	0.6	14.3	18.1	0.011

H05V-R						
Nominal Cross Section Area	No./Dia.of Wires	Insulation Thickness	Appro.O.D.	Approx. Weight	Max.Resistance of Conductor at 20℃	Min.Insulation Resistance at 70℃
mm^2	-	mm	mm	kg	Ω/km	MΩ/km
0.5	7/0.30	0.90	0.6	8.9	36.0	0.014
0.75	7/0.37	1.11	0.6	11.5	24.5	0.012
1	7/0.43	1.29	0.6	14.3	18.1	0.011

H05V-K						
Nominal Cross Section Area	No./Dia.of Wires	Insulation Thickness	Appro.O.D.	Approx. Weight	Max.Resistance of Conductor at 20℃	Min.Insulation Resistance at 70℃
mm^2	-	mm	mm	kg	Ω/km	MΩ/km
0.5	16/0.2	0.91	0.6	9.2	39.0	0.013
0.75	24/0.2	1.12	0.6	12.1	26.0	0.011
1	32/0.2	1.29	0.6	14.9	19.5	0.010