2491X / H05V-K / H07V-K EN 50525-2-31 Flexible Cable - 0.50mm² to 240mm²



Description

2491X is a single-core panel wire with a Class 5 flexible copper conductor in Polyvinyl Chloride (PVC) insulation. Designed for ease of routing in tight spaces, it is rated for operating temperatures up to 70°C and is available in various colours for circuit identification. It serves as a more pliable alternative to solid-core wiring in protected environments.

This cable is primarily used for the internal wiring of switchgear, control panels, and relay boards, as well as within lighting fixtures and household appliances. Its flexibility makes it ideal for installation within conduits or trunking. Depending on the conductor size, it carries a voltage rating of 300/500V for smaller cross-sections (up to 1.0mm²) or 450/750V for larger sizes (1.5mm² and above)

Because it uses standard PVC insulation rather than halogen-free materials, 2491X is intended for general-purpose applications where specific fire safety regulations for public buildings are not required. It is built for fixed installations or use within mobile equipment where it remains shielded from mechanical impact.

Key Features

Voltage Rating
Up to 1mm² (H05V-K) - 300/500 Volts
1.5mm² and above (H07V-K) - 450/750 Volts

Minimum Bending Radius
Fixed: 6 x overall diameter

Flame Retardancy
BS EN/IEC 60332-1-2

Temperature Limits
Fixed: -30°C to +80°C
Flexing: -5°C to +70°C

Core Colours

Red | Black | Blue | Orange | Yellow | White | Green Yellow | Grey | Brown | Violet | Pink

Standards

- BS EN 50525-2-31
- BS EN/IEC 60332-1-2
- BS EN/IEC 60228

Construction

- **Conductor**: Class 5 flexible stranded copper conductor
- **Insulation**: Polyvinyl Chloride (PVC)

Training & Testing Lab

AN ISO/IEC 17025 ACCREDITED FACILITY

Cleveland Cable Test & Training Lab
Our state-of-the-art cable testing facility ensures that every cable meets the highest standards of quality and compliance through continuous, rigorous testing.

ISO/IEC 17025 Accredited Testing Laboratory
31196

CPR
Cleveland Cable Company is committed to compliance with the Construction Products Regulation (CPR). Where applicable, all cables manufactured after 1st July 2017 have been assessed in accordance with CPR requirements, with full supporting documentation available.

Our Sustainability Commitment

We are committed to the journey to Net Zero as a business partner, an employer and a community member.

By thinking and acting sustainably, we deliver excellent customer service while reducing carbon emissions in collaboration with our customers and suppliers.

CLEVELAND CABLE COMPANY

ecovadis
Cleveland Cable Company has been independently assessed by EcoVadis, a globally recognised provider of business sustainability ratings. Our score places us among the top 35% of companies evaluated worldwide, reflecting our strong commitment to environmental, social, and ethical performance

ecovadis

2491X / H05V-K / H07V-K EN 50525-2-31 Flexible Cable - 0.50mm² to 240mm² - Dimensions

Reference	Conductor Size (mm2)	Overall Diameter(mm)	Weight(Kg/Km)	Voltage
2491X/5	0.50	2.20	9	300/500
2491X/75	0.75	2.40	12	300/500
2491X1	1.00	2.50	15	300/500
2491X1/5	1.50	3.00	20	450/750
2491X2/5	2.50	3.70	30	450/750
2491X4	4	4.10	45	450/750
2491X6	6	4.80	65	450/750
2491X10	10	6.20	110	450/750
2491X16	16	7.30	170	450/750
2491X25	25	9.20	255	450/750
2491X35	35	10.50	340	450/750
2491X50	50	12.60	495	450/750
2491X70	70	14.10	670	450/750
2491X95	95	17.00	915	450/750
2491X120	120	17.80	1135	450/750
2491X150	150	19.60	1400	450/750
2491X185	185	22.90	1750	450/750
2491X240	240	26.10	2265	450/750

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