

Ordinary Duty V90 PVC Flexible Cord 250/400V Cable - 0.50mm² to 4mm²







Description

Ordinary Duty V90 PVC Flexible Cords are designed as medium-stress electrical supply cables rated at 250/400V, specifically engineered for internal applications that demand a higher thermal endurance threshold. This range features plain annealed flexible stranded copper conductors, insulated with a V-90 Polyvinyl Chloride (PVC) compound and protected by a robust 5V-90 PVC outer sheath, allowing the assembly to safely withstand continuous operating temperatures up to 90°C. Manufactured in both flat and round configurations, the range fully complies with the structural requirements of Australian and new Zealand standards AS/NZS 3191 and AS/NZS 1125. They serve as an ideal choice for wiring high-use appliances that encounter elevated ambient temperatures, such as commercial cooking equipment, commercial washing machines, dishwashers, and office machinery.

These cables are suited for installation in internal dry or damp environments where they may be subjected to standard mechanical stress and normal physical handling. Due to their ordinary-duty construction, they offer a higher degree of protection than light-duty variants, though they are still not advised for unprotected outdoor use or heavy industrial processing zones. The flexible PVC outer sheath is intended to withstand regular bending and movement while offering the primary advantage of elevated heat resistance for environments prone to thermal buildup or proximity to heating appliances. However, for environments prone to extreme mechanical risks, permanent outdoor exposure, or intense chemical exposure, alternative heavy-duty or rubber-sheathed cable variants should be specified instead.

For safe installation, the cable must be handled carefully to prevent tight kinks, maintaining a minimum bending radius of six times the overall cable diameter during flexing. Installers should always use appropriate protective bushings or cord grip fittings when feeding the cable through enclosures or equipment chassis to eliminate any potential for structural chafing. As these are designated as flexible cords, standard electrical safety regulations require that they only be used to connect temporary or portable equipment and must never be utilized as a permanent substitute for the fixed wiring within a building structure.

Key Features



Voltage Rating
250/400 Volts



Minimum Bending Radius
6 x overall diameter



Temperature Limits
Maximum operating temperature: +90°C

Core Colours

1 Core - Black White Blue or Red

2 Cores - Brown Blue

3 Cores - Brown Blue Green Yellow

4 Cores - Brown Blue White Green Yellow

5 Cores - Brown Blue White Orange Green Yellow

Sheath Colours:

Grey White Black Orange

Standards

- AS/NZS 1125
- AS/NZS 3191

Construction

- **Conductor:** Stranded copper conductor
- **Insulation:** Polyvinyl Chloride (PVC)
- **Outer Sheath:** Polyvinyl Chloride (PVC)
- **Sheath Colour:** Black, Grey, White or Orange

QA Lab

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. Where applicable, cables are independently tested and certified by BASEC to ensure full compliance.



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.



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

Ordinary Duty V90 PVC Flexible Cord 250/400V Cable - 0.50mm² to 4mm² - Dimensions

Reference	Conductor Size (mm ²)	No Of Cores	Insulation Thickness (mm)	Sheath Thickness (mm)	Overall Diameter(mm)	Weight(Kg/Km)
V90ORD1X/5RNS	0.5	1	0.60	N/A	2.20	1
V90ORD2X/5F	0.5	2	0.60	0.80	6.00 X 3.90	3.6
V90ORD1X/75RNS	0.75	1	0.60	N/A	2.40	1.2
V90ORD2X/75F	0.75	2	0.60	0.80	6.40 X 4.10	4.3
V90ORD2X/75R	0.75	2	0.60	0.80	6.40	5.8
V90ORD3X/75R	0.75	3	0.60	0.80	6.80	7
V90ORD4X/75R	0.75	4	0.60	0.80	7.40	8
V90ORD5X/75R	0.75	5	0.60	0.90	8.20	9
V90ORD1X1RNS	1	1	0.60	N/A	2.50	1.6
V90ORD2X1R	1	2	0.60	0.80	6.70	6.5
V90ORD3X1R	1	3	0.60	0.80	7.10	8
V90ORD4X1R	1	4	0.60	0.90	8.00	10
V90ORD5X1R	1	5	0.60	0.90	8.60	13
V90ORD1X1/5RNS	1.5	1	0.70	N/A	3.00	2.2
V90ORD2X1/5R	1.5	2	0.70	0.80	7.60	9
V90ORD3X1/5R	1.5	3	0.70	0.90	8.40	12
V90ORD4X1/5R	1.5	4	0.70	1.00	9.20	14
V90ORD5X1/5R	1.5	5	0.70	1.10	10.50	18
V90ORD1X2/5RNS	2.5	1	0.80	N/A	3.70	3.5
V90ORD2X2/5R	2.5	2	0.80	1.00	9.40	15
V90ORD3X2/5R	2.5	3	0.80	1.10	10.20	18
V90ORD4X2/5R	2.5	4	0.80	1.10	11.10	21
V90ORD5X2/5R	2.5	5	0.80	1.20	12.30	26
V90ORD1X4RNS	4	1	0.80	N/A	4.20	5
V90ORD2X4R	4	2	0.80	1.00	10.20	19
V90ORD3X4R	4	3	0.80	1.10	11.40	25
V90ORD4X4R	4	4	0.80	1.10	12.50	30
V90ORD5X4R	4	5	0.80	1.30	14.00	38

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