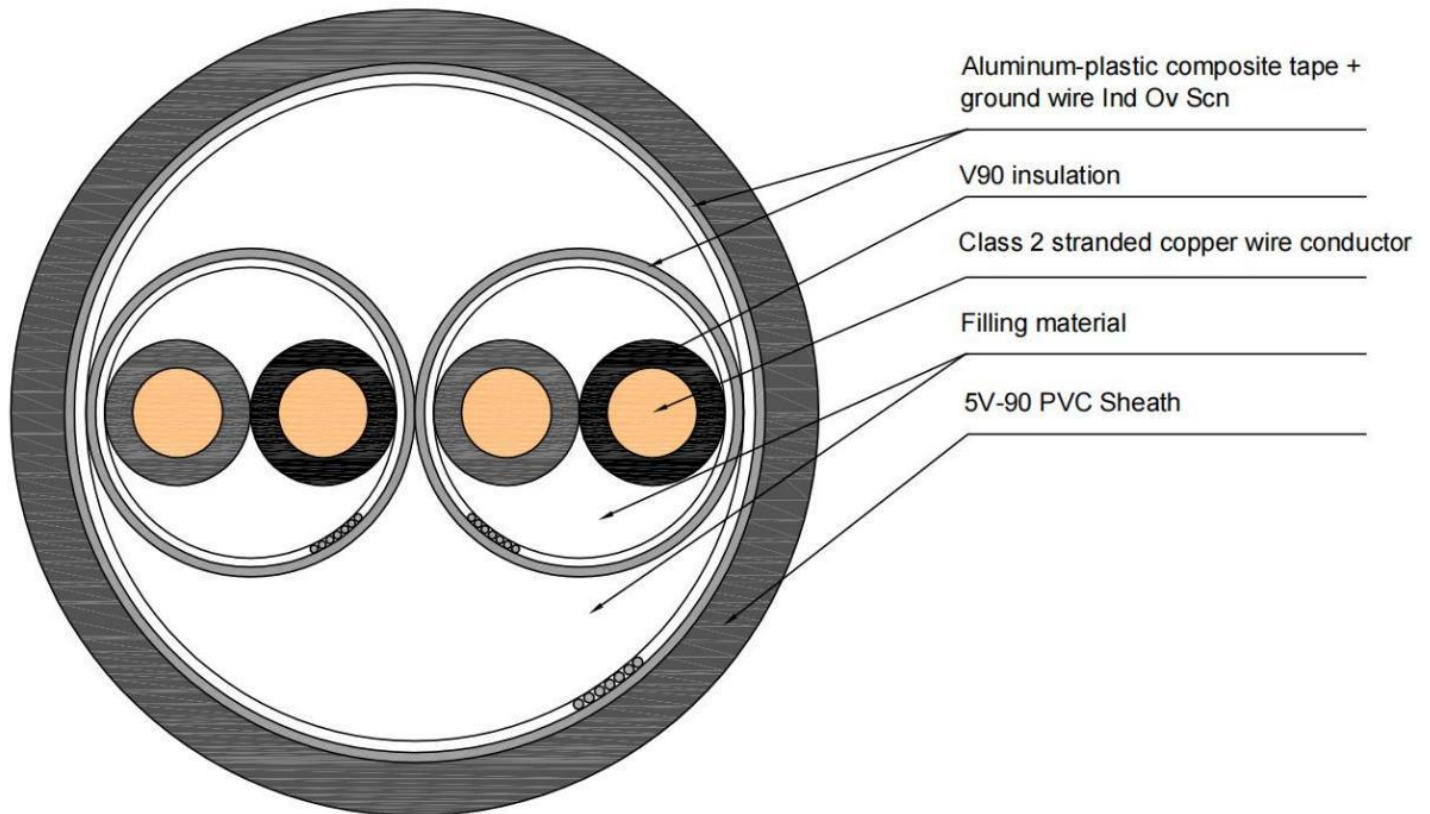


LV Instrumentation Cable Cu/V-90/IS/OS/5V-90 300/500V is an Australian standard low-voltage instrumentation cable used to connect instrumentation equipment and control systems. It has excellent performance and reliability and is suitable for a variety of industrial applications.

[Instrumentation Cable](#) structure:



Cable characteristics:

Voltage level: LV Instrumentation Cable Cu/V-90/IS/OS/5V-90 300/500V is suitable for low voltage applications with a rated voltage of 300/500V.

Temperature range: This cable is capable of operating normally within the temperature range of -40°C to 90°C, adapting to various environmental conditions.

Flame retardant properties: The cable has excellent flame retardant properties, which can reduce the risk of fire spread in case of fire.

Chemical resistance: The outer sheath of the cable has good chemical resistance and can resist the erosion of chemical substances, ensuring the long-term stability of the cable.

Anti-interference: This cable adopts a shielding design, which can effectively reduce the impact of external electromagnetic interference on signal transmission.

Application fields: LV Instrumentation Cable Cu/V-90/IS/OS/5V-90 300/500V is widely used in various industrial fields, including but not limited to:

Instrument equipment connection: This cable can be used to connect various instrument

equipment, such as sensors, transmitters, controllers, etc., to achieve signal transmission and data collection.

Automation systems: It is suitable for control and monitoring applications in automation systems, ensuring reliable signal transmission and data communication.

Factory and industrial equipment: This cable can be used to connect factories and industrial equipment, such as mechanical equipment, electrical equipment, etc., to achieve data transmission and control.

Australian standard requirements: LV Instrumentation Cable Cu/V-90/IS/OS/5V-90 300/500V complies with Australian standard requirements, including but not limited to:

AS/NZS 5000.1:2014: This standard specifies the requirements for the design, installation and use of low-voltage cables to ensure the safety and reliability of the cables.

AS/NZS 1125:2016: This standard specifies the requirements for conductors and insulating materials of cables to ensure the conductive and insulating properties of the cable.

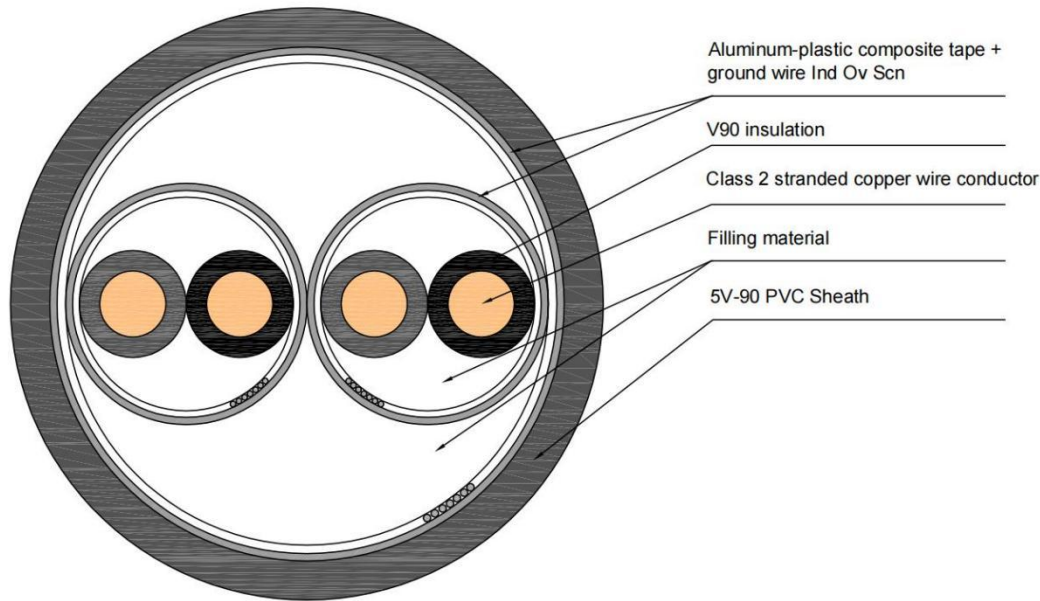
AS/NZS 3808:2000: This standard specifies the requirements for the outer sheath material of cables to ensure the durability and environmental adaptability of the cable.

LV Instrumentation Cable Cu/V-90/IS/OS/5V-90 300/500V is a high performance low voltage instrumentation cable suitable for a variety of industrial applications. It has excellent electrical conductivity, high temperature resistance and chemical resistance. The cable complies with Australian standards to ensure its safety and reliability. If you need a reliable low voltage instrumentation cable, LV Instrumentation Cable Cu/V-90/IS/OS/5V-90 300/500V is an ideal choice.

TECHNICAL DATA

Instrumentation Cable Cu/V-90/IS/OS/PVC 5V-90 300Vac/500Vdc

Cable drawing:



Notes:

1. Core identification: White, Black with Digit
2. Outer sheath: Black

Electrical characteristics:

1. Rated voltage: 300VAC/500VDC
2. Maximum operation conductor temperature : 90°C
3. Short-circuit operating temperature: 160°C

Standard compliance:

1. Design guidelines: BS EN 50288.7
2. Conductor: AS/NZS 1125
3. Insulation and sheath: AS/NZS 3808

No. of cores	Structure of cond.	Approx. diameter of cond.	Nom. thickness of ins.	Stru. of drain wire	Nom. thickness of Al-Mylar tape	Nom. thickness of outer sheath	Approx. dia. of cable	Approx. weight of cable	Max. DC CR at 20°C	Min. IR at 20°C	Max. allowable pulling force of cond.	Min. bending radius	
												During installation	After installation
	No./mm	mm	mm	No./mm	mm	mm	mm	kg/km	Ω/km	MΩ/km	kN	mm	mm
1P1.5	7/0.52	1.55	0.6	7/0.2	0.05	1.4	8.7	252	13.6	10	0.2	250	188
2P0.5	7/0.30	1.0	0.6	7/0.2	0.05	1.4	10.2	135	36.0	10	0.1	230	173
2P1.5	7/0.52	1.55	0.6	7/0.2	0.05	1.4	14.6	389	13.6	10	0.4	320	240
2P2.5	7/0.68	2.0	0.6	7/0.2	0.05	1.6	15.8	467	7.41	10	0.65	350	263
4P1.5	7/0.52	1.55	0.6	7/0.2	0.05	1.4	17.2	504	13.6	10	0.8	410	310
4P2.5	7/0.68	2.0	0.6	7/0.2	0.05	1.6	18.8	656	7.41	10	1.4	450	338
6P1.5	7/0.52	1.55	0.6	7/0.2	0.05	1.6	20.0	672	13.6	10	1.2	450	338
10P0.5	7/0.30	1.0	0.6	7/0.2	0.05	1.6	19.1	450	36.0	10	1.6	420	315
10P1.5	7/0.52	1.55	0.6	7/0.2	0.05	1.6	24.6	1103	13.6	10	2.4	520	390

10P2.5	7/0.68	2.0	0.6	7/0.2	0.05	1.8	26.7	1523	7.41	10	3.5	560	420
1T1.5	7/0.52	1.55	0.6	7/0.2	0.05	1.6	9.2	302	7.41	10	0.25	270	230
2T1.5	7/0.52	1.55	0.6	7/0.2	0.05	1.6	15.2	683	7.41	10	0.55	340	255
4T1.5	7/0.52	1.55	0.6	7/0.2	0.05	1.6	17.6	693	7.41	10	1.2	430	323
6T1.5	7/0.52	1.55	0.6	7/0.2	0.05	1.8	20.9	861	7.41	10	1.8	480	360
10T1.5	7/0.52	1.55	0.6	7/0.2	0.05	1.8	26.6	1733	7.41	10	2.2	550	413