

AS/NZS 5000.2 Single Core PVC-PVC Cable 450/750V



Eland Product Group: AS1

APPLICATION

Single core PVC cables available for switchboard and control panel wiring, for fixed wiring within other enclosures, or apparatus where the cable is not accessible without the use of tools.

CHARACTERISTICS

Rated Voltage Uo/U
450/750V

Temperature Rating
Maximum operating temperature: 90°C

Minimum Bending Radius
3 x overall diameter

CONSTRUCTION

Conductor
Plain annealed copper

Insulation
PVC V-90 (Polyvinyl Chloride)

Outer Sheath
PVC 3V90 (Polyvinyl Chloride)

Core Identification
Single core (choice) ● Red ● Black

Sheath Colour
 White

DIMENSIONS

ELAND PART NO.	NUMBER OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	CONDUCTOR Strands / OD mm	NOMINAL INSULATION THICKNESS mm	NOMINAL OUTER SHEATH THICKNESS mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
AS14010010WH**	1	1.0	1/1.13	0.6	0.9	4.1	30
AS14010015WH**	1	1.5	7/0.50	0.6	0.9	4.4	35
AS14010025WH**	1	2.5	7/0.67	0.7	1	5.1	55
AS14010040WH**	1	4	7/0.85	0.8	1.1	6.0	80
AS14010060WH**	1	6	7/1.04	1.0	1.1	6.6	100
AS1401010WH**	1	10	7/1.35	1.0	1.2	7.8	145
AS1401016WH**	1	16	7/1.70	1.0	1.3	9.1	225

* Designates the insulation colour. For each Eland Cables part number replace with either RD for Red and BK for Black as listed e.g. AS14010010WHRD= 1 core 1mm² Red

STANDARDS

AS/NZS 5000.2, AS 1125, AS 3808

ISO/IEC 17025 LABORATORY TESTED

This product is subject to the Quality Assurance protocols of The Cable Lab®, an ISO/IEC 17025 accredited cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.



REGULATORY COMPLIANCE

This cable meets the requirements of the Low Voltage Directive 2014/35/EU and the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab® as meeting the requirements of the BSI RoHS Trusted Kitemark™.





ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTION AREA mm	CURRENT RATINGS			MAXIMUM DC RESISTANCE AT 20 °C Ohm/km	MAXIMUM AC RESISTANCE AT 75 °C Ohm/km	REACTANCE Ohm/km	SINGLE PHASE VOLTAGE DROP mV/A
	In conduit In Air A	Surrounded by thermal insulation A	Buried In Ducts A				
1.0	15	26	20	18.1	27.0	0.168	54.0
1.5	18	34	26	13.6	17.3	0.157	34.6
2.5	26	47	36	7.41	9.45	0.143	18.9
4	35	62	46	4.61	5.88	0.137	11.8
6	46	78	58	3.08	3.93	0.128	7.86
10	62	103	78	1.83	2.33	0.118	4.68
16	82	132	100	1.15	1.47	0.111	2.94