

AS/NZS 5000.2 PVC/PVC 450/750V Cable



Eland Product Group: AS1

APPLICATION

Multicore PVC insulated and sheathed cables for control circuits both unenclosed, enclosed in conduit, buried direct, or in underground ducts for commercial, industrial, mining and electricity authority systems where not subject to mechanical damage.

CHARACTERISTICS

Rated Voltage U₀/U
450/750V

Temperature Rating
Maximum operating temperature: 90°C

Minimum Bending Radius
5x overall diameter

CONSTRUCTION

Conductor
Plain annealed copper

Insulation
PVC V-90 (Polyvinyl Chloride)

Outer Sheath
PVC 5V90 (Polyvinyl Chloride)

Core Identification
2 Cores: ● Red ● Black
3 Cores: ● Red ○ White ● Blue
4 Cores: ● Red ○ White ● Blue ● Black
7-37 Cores: ○ White (Numbered)

Sheath Colour
● Black

STANDARDS

AS/NZS 5000.2, AS 1125, AS 3808

THE CABLE LAB[®]

AN ISO/IEC 17025 AND IECCE CBTL ACCREDITED FACILITY

Our world-class testing facility assures the quality and compliance of this cable through a continuous and rigorous testing regime.



SUSTAINABILITY COMMITMENT

We are on a journey to Net Zero.

We've committed to near-term emissions reductions and a net-zero target with the Science Based Targets initiative and we're a signatory to the United Nations Global Compact Sustainable Development Goals.

Learn more about embodied carbon and our carbon emissions reduction actions, our comprehensive recycling services, and wider ESG activities for sustainable operations at: www.elandcables.com/company/about-us/esg-sustainability



REGULATORY COMPLIANCE

This cable meets the requirements of the Low Voltage Directive 2014/35/EU, the RoHS Directive 2015/65/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab[®].





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
AS15020015BK	2	1.5	7/0.50	0.6	0.9	8.0	95
AS15020025BK	2	2.5	7/0.67	0.7	1	9.6	140
AS15030015BK	3	1.5	7/0.50	0.6	0.9	8.5	120
AS15030025BK	3	2.5	7/0.67	0.7	1	10.1	170
AS15030040BK	3	4	7/0.85	0.8	1.1	11.7	240
AS15030060BK	3	6	7/1.04	1.0	1.1	13.2	300
AS15040015BK	4	1.5	7/0.50	0.6	0.9	9.2	130
AS15040025BK	4	2.5	7/0.67	0.7	1	11.4	210
AS15040040BK	4	4	7/0.85	0.8	1.1	12.4	280
AS15040060BK	4	6	7/1.04	1.0	1.1	13.8	330
AS15070015BK	7	1.0	1/1.13	0.6	0.9	10.0	150
AS15070025BK	7	1.5	7/0.50	0.6	0.9	11.4	195
AS15070040BK	7	2.5	7/0.67	0.7	1	13.3	300
AS15120010BK	12	1.0	1/1.13	0.6	0.9	12.9	240
AS15120015BK	12	1.5	7/0.50	0.6	0.9	15.0	320
AS15120025BK	12	2.5	7/0.67	0.7	1	17.5	490
AS15190010BK	19	1.0	1/1.13	0.6	0.9	14.9	350
AS15190015BK	19	1.5	7/0.50	0.6	0.9	16.8	450
AS15190025BK	19	2.5	7/0.67	0.7	1	21.0	760
AS15270010BK	27	1.0	1/1.13	0.6	0.9	17.9	480
AS15270015BK	27	1.5	7/0.50	0.6	0.9	21.1	670
AS15270025BK	27	2.5	7/0.67	0.7	1	24.8	1030
AS15370010BK	37	1.0	1/1.13	0.6	0.9	21.2	690
AS15370015BK	37	1.5	7/0.50	0.6	0.9	22.7	840
AS15370025BK	37	2.5	7/0.67	0.7	1	27.9	1380

ELECTRICAL CHARACTERISTICS

NUMBER OF CORES	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 AT 75 °C mV/A
		Unenclosed In Air A	Buried direct A	Buried In Ducts A				
2	1.5	21	31	24	13.6	16.5	0.111	33.0
2	2.5	30	44	34	7.41	9.01	0.102	18.0
3	1.5	17	26	21	13.6	16.5	0.111	28.6
3	2.5	25	37	29	7.41	9.01	0.102	15.6
3	4	33	48	37	4.61	5.61	0.102	9.71
3	6	42	61	47	3.08	3.75	0.097	6.49
4	1.5	17	26	21	13.6	16.5	0.111	28.6
4	2.5	25	37	29	7.41	9.01	0.102	15.6
4	4	33	48	37	4.61	5.61	0.102	9.71
4	6	42	61	47	3.08	3.75	0.097	6.49
7+	1.0	14	21	17	18.1	25.8	0.119	51.6
7+	1.5	17	26	21	13.6	16.5	0.111	33.0
7+	2.5	25	37	29	7.41	9.01	0.102	18.0