

750 V 70°C AWV



Construction

1. Conductor : Compact round stranded hard-drawn aluminium wires
2. Insulation : Black polyvinyl chloride (PVC)

Reference Standard :

TIS 293-2541 Table 2



Classification

Maximum conductor temperature	: 70 °C
Maximum circuit voltage	: 750 V
AC test voltage	: 2,500 V

Application

- For low voltage overhead distribution line

Cross-sectional area mm ² (Nominal)	Conductor		Thickness of insulation mm (Nominal)	Overall diameter mm (Approx.)	Conductor resistance at 20°C Ω/km (Max.)	Insulation resistance at 70°C MΩ.km (Min.)	Breaking strength N (Min.)	Current rating in free air at 40°C ambient A	Cable weight kg/km (Approx.)	Standard length m/drum
	Number of wires (Min.)	Diameter of conductor mm (Approx.)								
10	6	3.68	1.1	6.2	3.08	0.0076	1,768	50	54	3,000
16	6	4.65	1.1	7.2	1.91	0.0063	2,734	67	77	3,000
25	6	5.82	1.3	8.9	1.20	0.0060	4,120	89	118	3,000
35	6	6.88	1.3	9.9	0.868	0.0052	5,591	109	153	3,000
50	6	7.92	1.5	11.4	0.641	0.0052	7,313	132	208	2,000
70	12	9.55	1.5	13.0	0.443	0.0044	10,420	166	273	2,000
95	15	11.27	1.7	15.1	0.320	0.0043	14,098	217	373	1,000
120	15	12.68	1.7	16.5	0.253	0.0038	18,518	253	456	1,000
150	15	14.05	1.9	18.4	0.206	0.0039	22,457	289	562	1,000
185	30	15.75	2.1	20.5	0.164	0.0038	28,974	334	694	1,000
240	30	18.23	2.3	23.4	0.125	0.0037	37,506	399	900	1,000
300	30	20.38	2.5	26.0	0.100	0.0036	45,642	460	1,117	1,000
400	53	23.25	2.7	30.7	0.0778	0.0034	56,992	549	1,414	500
500	53	26.22	3.1	33.1	0.0605	0.0035	72,195	633	1,823	500