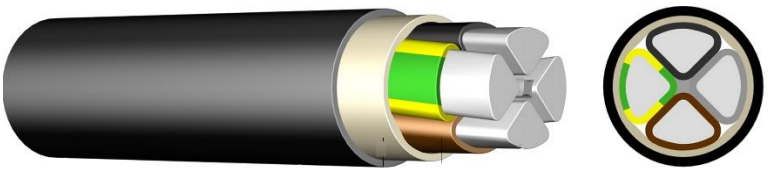
METSEC CABLES LIMITED

PVC INSULATED PVC SHEATHED CABLE ALUMINIUM CONDUCTOR



APPLICATION

For main distribution in industry and elsewhere, suitable for installation in the ground. *for use* ducts or in air.

CHARACTERISTICS

Voltage Rating (Uo/U)

600/1000v

Temperature Rating

+5°C to +70°C

Minimum Bending Radius

5 x overall diameter

CONSTRUCTION

Conductor

Stranded Aluminium conductor according to BS 6346

Insulation

PVC

Bedding

PVC

Armour

SWA

Sheath

PVC

CABLE THIRD-PARTY ACCREDITATION

Cables are tested and accredited by Kenya Bureau and Standards (KEBS).

STANDARDS

KS EN KS-IEC 60228

Flame Retardant according to IEC/EN 60332-1-2

KEBS ISO 9001 Quality Management | ISO 14001 Environmental Management | ISO 45001 Occupational Health and Safety Management

Core Identification

2 core: Red Black

3 core: Red Yellow Black

4 core: Red Yellow Blue Black

Sheath Colour

- Black

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	NOMINAL AREA OF CONDUCTOR	INSULATION THICKNESS	ARMOUR WIRE DIAMETER	APPROX. DIAMETER UNDER ARMOUR	APPROX. OVERALL DIAMETER	APPROX. CABLE WEIGHT	MAXIMUM RESISTANCE OF CONDUCTOR		REACTANCE	IMPEDANCE	STAR CAPACITANCE	GROSS CROSS-SECTIONAL AREA OF ARMOUR	MAXIMUM ARMOUR RESISTANCE AT 20oC
							DC AT 20oC	AC AT 90oC					
	mm2	mm	mm	mm	mm	Kg/km	ohms/km	ohms/km	ohms/km	ohms/km	µF/km	mm2	ohms/km
Single core Aluminium Strip Armour +	50	1.4	0.6	12.3	16.5	400	0.641	0.7704	0.107	0.778	0.98	19	1.80
	70	1.4	0.6	13.9	18.3	490	0.443	0.5338	0.102	0.544	1.14	22	1.60
	95	1.6	0.6	16.0	20.4	620	0.320	0.3838	0.099	0.396	1.21	26	1.40
	120	1.6	0.6	17.7	22.3	750	0.253	0.3046	0.097	0.320	1.25	29	1.20
	150	1.8	0.6	19.5	24.1	880	0.206	0.2483	0.096	0.266	1.28	31	1.10
	185	2.0	1.0	21.5	27.1	1100	0.164	0.1980	0.096	0.220	1.33	60	0.57
	240	2.2	1.0	24.2	30.0	1400	0.125	0.1503	0.094	0.177	1.42	67	0.51
	300	2.4	1.0	26.7	32.5	1700	0.100	0.1214	0.092	0.152	1.48	74	0.46
	380	2.6	1.4	30.4	37.2	2100	0.0800	0.0976	0.092	0.134	1.51	117	0.29
	(4x95) 480	2.8	1.4	33.5	40.5	2600	0.0633	0.0780	0.090	0.119	1.59	130	0.27
	(4x120) 600	2.8	1.4	36.2	43.4	3000	0.0515	0.0643	0.088	0.109	1.75	143	0.24
	(4x150) 740	2.8	1.4	39.9	47.3	3600	0.0410	0.0523	0.086	0.101	1.85	156	0.22
	(4x185) 960	3.0	1.8	44.9	53.5	4600	0.0313	0.0414	0.085	0.095	2.00	226	0.15
	(4x240) 1200 (4x300)	3.0	1.8	49.5	58.3	5500	0.0250	0.0346	0.084	0.090	2.13	248	0.14
		+Cables in trefoil touching arrangement. Frequency 50Hz											
Two Core Aluminium Strip Armour	•16	1.0	0.6	15.0	19.4	400	1.910	2.2709	0.086	2.273	0.87	23	1.50
	•25	1.2	0.6	18.0	22.6	560	1.200	1.4420	0.085	1.444	0.92	22	1.60
	•35	1.2	0.6	20.0	24.8	680	0.868	1.0432	0.082	1.046	1.04	24	1.40
	50	1.4	0.6	18.1	23.1	700	0.641	0.7704	0.082	0.775	1.06	29	1.20
	70	1.4	1.0	20.3	26.1	950	0.443	0.5339	0.079	0.540	1.23	56	0.60
	95	1.6	1.0	23.4	29.6	1300	0.320	0.3839	0.078	0.392	1.28	63	0.54
Three Core Aluminium Strip Armour	•16	1.0	0.6	16.1	20.5	500	1.910	2.2709	0.086	2.273	0.87	26	1.4
	•25	1.2	0.6	19.4	24.0	690	1.200	1.4420	0.085	1.444	0.92	27	1.3
	•35	1.2	0.6	21.5	26.3	840	0.868	1.0432	0.082	1.046	1.04	30	1.2
	50	1.4	1.0	21.5	27.3	1000	0.641	0.7704	0.082	0.775	1.06	60	0.57
	70	1.4	1.0	24.2	30.2	1300	0.443	0.5339	0.079	0.540	1.23	67	0.51
	95	1.6	1.4	28.1	35.1	1800	0.320	0.3839	0.078	0.392	1.28	104	0.33
	120	1.6	1.4	30.5	37.7	2100	0.253	0.3047	0.077	0.314	1.41	117	0.29
	150	1.8	1.4	33.7	41.3	2500	0.206	0.2484	0.077	0.260	1.41	130	0.27
	185	2.0	1.4	37.5	45.3	3000	0.164	0.1982	0.077	0.213	1.44	143	0.24
	240	2.2	1.8	42.4	51.2	3900	0.125	0.1505	0.076	0.169	1.50	214	0.16
	300	2.4	1.8	47.0	56.2	4700	0.100	0.1216	0.076	0.143	1.55	237	0.15
Four Core Aluminium Strip Armour	•16	1.0	0.6	17.8	22.4	600	1.910	2.2709	0.086	2.273	0.87	29	1.2
	•25	1.2	0.6	21.5	26.3	850	1.200	1.4420	0.085	1.444	0.92	30	1.2
	•35	1.2	0.6	23.9	28.9	1050	0.868	1.0432	0.082	1.046	1.04	34	1.1
	50	1.4	1.0	24.5	30.5	1300	0.641	0.7704	0.082	0.775	1.06	67	0.51
	70	1.4	1.0	27.8	34.0	1700	0.443	0.5339	0.079	0.540	1.23	78	0.44
	95	1.6	1.4	32.2	39.4	2300	0.320	0.3839	0.078	0.392	1.28	123	0.28
	120	1.6	1.4	35.1	42.7	2700	0.253	0.3047	0.077	0.314	1.41	136	0.25
	150	1.8	1.4	38.9	46.7	3200	0.206	0.2484	0.077	0.260	1.41	149	0.23
	185	2.0	1.8	43.3	52.1	4000	0.164	0.1982	0.077	0.213	1.44	214	0.16
	240	2.2	1.8	49.0	58.2	5000	0.125	0.1505	0.076	0.169	1.50	248	0.14
	300	2.4	1.8	54.4	64.0	6100	0.100	0.1216	0.076	0.143	1.55	271	0.13

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