

# CU/PVC/PVC/SWA/PVC ARMoured POWER CABLE



## APPLICATION

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

## CHARACTERISTICS

### Voltage Rating (U<sub>0</sub>/U)

600/1000v

### Temperature Rating

+5°C to +70°C

### Minimum Bending Radius

5 x overall diameter

## CONSTRUCTION

### Conductor

Plain annealed copper according to BS 6360

### 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



## Core Identification

- 2 core: Red Black
- 3 core: Red Yellow Black
- 4 core: Red Yellow Blue Black

## Sheath Colour

- Black



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NUMBER OF CORES	NOMINAL AREA OF CONDUCTOR	NOMINAL NO. AND DIAMETER OF WIRES IN CONDUCTOR	APPROX. DIAMETER UNDER ARMOUR	APPROX. DIAMETER OVER ARMOUR	APPROX. OVERALL DIAMETER	APPROX. NETT WEIGHT	MAXIMUM RESISTANCE OF CONDUCTOR		REACTANCE	GROSS CROSS-SECTIONAL AREA OF ARMOUR	MAXIMUM ARMOUR RESISTANCE AT 20°C
							DC AT 20oC	AC AT 90oC			
REFERENCE NUMBER	mm <sup>2</sup>	no/mm	mm	mm	mm	Kg/km	ohms/km	ohms/km	ohms/km	mm <sup>2</sup>	ohms/km
<b>Twin</b>	1.5	1/1.38	7.3	9.1	11.7	280	12.100	14.478	0.104	16	10.7
<b>6942X</b>	2.5	1/1.78	8.5	10.3	13.1	350	7.410	8.866	0.101	18	9.1
<b>6942X7</b>	1.5	7/0.53	7.2	9.0	12.3	286	12.100	14.478	0.104	16	10.7
	2.5	7/0.67	8.5	10.3	13.6	356	7.410	8.866	0.101	19	9.1
	4	7/0.85	10.5	12.3	15.1	460	4.610	5.516	0.099	22	7.5
<b>6942X</b>	6	7/1.04	11.7	13.5	16.5	550	3.080	3.686	0.094	24	6.8
	10	7/1.35	14.4	16.9	20.1	850	1.830	2.190	0.093	42	3.9
<b>Three</b>	16	7/1.70	16.1	18.5	21.9	1068	1.150	1.377	0.088	47	3.4
	1.5	1/1.38	7.7	9.5	12.3	310	12.100	14.478	0.104	17	10.2
<b>6943X</b>	2.5	1/1.78	9.0	10.8	13.6	390	7.410	8.866	0.101	19	8.8
<b>6943X7</b>	1.5	7/0.53	7.7	9.5	13.8	317	12.100	14.478	0.104	17	10.2
	2.5	7/0.67	9.0	10.8	14.1	395	7.410	8.866	0.101	20	8.8
	4	7/0.85	11.2	13.0	15.8	520	4.610	5.516	0.099	23	7.0
<b>6943X</b>	6	7/1.04	12.5	15.0	18.0	730	3.080	3.686	0.094	37	4.6
	10	7/1.35	15.5	18.0	21.2	1010	1.830	2.190	0.093	45	3.7
<b>Four</b>	16	7/1.70	17.1	19.6	23.1	1251	1.150	1.377	0.088	50	3.2
	1.5	1/1.38	8.4	10.2	13.0	350	12.100	14.478	0.104	18	9.5
<b>6944X</b>	2.5	1/1.78	9.9	11.7	14.5	440	7.410	8.866	0.101	21	7.9
<b>6944X7</b>	1.5	7/0.53	8.4	10.2	13.5	360	12.100	14.478	0.104	19	9.5
	2.5	7/0.67	9.9	11.7	15.0	454	7.410	8.866	0.101	21	7.9
<b>6944X</b>	4	7/0.85	12.3	14.8	17.8	710	4.610	5.516	0.099	36	4.6
	6	7/1.04	13.7	16.2	19.2	850	3.080	3.686	0.094	40	4.1
	10	7/1.35	17.1	19.6	22.8	1200	1.830	2.190	0.093	49	3.4
	16	7/1.70	19.5	22.6	26.3	1704	1.150	1.377	0.088	72	2.2



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NUMBER OF CORES	NOM. AREA OF CONDUCTOR	INSULATION THICKNESS	ARMOUR WIRE DIA	APPROX. DIA UNDER ARMOUR	APPROX. OVERALL DIA	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					
REFERENCE no.	mm <sup>2</sup>	mm	mm	mm	mm	Kg/km	ohms/km	ohms/km	ohms/km	ohms/km	µF/km	mm <sup>2</sup>	ohms/km
Single core Aluminium Wire Armour +	50	1.4	1.25	13.6	19.1	600	0.387	0.4634	0.109	0.476	1.11	39	0.82
	70	1.4	1.25	15.4	21.1	800	0.268	0.3200	0.104	0.336	1.29	44	0.73
	95	1.6	1.25	17.7	23.4	1100	0.193	0.2317	0.100	0.252	1.38	50	0.64
	120	1.6	1.60	19.7	26.3	1400	0.153	0.1841	0.099	0.209	1.43	72	0.45
	150	1.8	1.60	21.7	28.3	1700	0.124	0.1497	0.097	0.178	1.46	80	0.40
	185	2.0	1.60	24.0	30.8	2100	0.0991	0.1203	0.095	0.153	1.52	88	0.37
	240	2.2	1.60	27.1	34.1	2700	0.0754	0.0926	0.093	0.131	1.62	98	0.33
	300	2.4	1.60	30.0	37.0	3300	0.0601	0.0750	0.091	0.118	1.70	103	0.30
	400	2.6	2.0	33.8	42.0	4200	0.0470	0.0599	0.091	0.109	1.71	153	0.21
	500	2.8	2.0	37.4	54.6	5200	0.0366	0.0484	0.089	0.101	1.82	169	0.19
	630	2.8	2.0	41.3	49.7	6600	0.0283	0.0398	0.086	0.095	12.04	185	0.18
800	2.8	2.5	46.0	55.8	8300	0.0221	0.0334	0.086	0.092	2.18	260	0.13	
1000	3.0	2.5	51.0	61.0	10400	0.0176	0.0290	0.084	0.089	2.32	289	0.12	
Two Core Steel Wire Armour	25	1.2	1.6	16.0	22.6	1400	0.727	0.8689	0.087	0.873	1.02	66	2.6
	35	1.2	1.6	17.7	24.5	1600	0.524	0.4635	0.081	0.633	1.18	66	2.4
	50	1.4	1.6	20.4	27.4	2200	0.387	0.6435	0.081	0.471	1.20	74	2.1
	70	1.4	1.6	23.0	30.0	2500	0.268	0.3202	0.079	0.330	1.39	84	1.9
	95	1.6	2.0	26.5	34.7	3500	0.193	0.2319	0.078	0.245	1.45	122	1.3
	120	1.6	2.0	28.8	37.2	4100	0.153	0.1844	0.076	0.199	1.61	131	1.2
	150	1.8	2.0	31.9	40.5	4900	0.124	0.1500	0.076	0.168	1.61	144	1.1
	185	2.0	2.5	35.4	45.2	6300	0.0991	0.1206	0.076	0.142	1.64	201	0.78
	240	2.2	2.5	40.0	50.0	7800	0.0754	0.0930	0.075	0.119	1.71	225	0.69
	300	2.4	2.5	44.4	54.8	9400	0.0601	0.0753	0.075	0.106	1.77	250	0.63
400	2.6	2.5	49.5	60.3	11500	0.0470	0.0604	0.074	0.096	1.85	279	0.56	
Three Core Steel Wire Armour	25*	1.2	1.6	2.04	27.0	1800	0.727	0.8689	0.087	0.873	1.02	66	2.4
	35*	1.2	1.6	22.7	29.5	2100	0.524	0.6273	0.081	0.633	1.18	74	2.1
	50	1.4	1.6	23.1	30.1	2600	0.387	0.4635	0.081	0.471	1.20	84	1.9
	70	1.4	2.0	26.2	34.2	3600	0.268	0.3202	0.079	0.330	1.39	119	1.4
	95	1.6	2.0	30.3	38.5	4700	0.193	0.2319	0.078	0.245	1.45	138	1.2
	120	1.6	2.0	33.0	41.4	5600	0.153	0.1844	0.076	0.199	1.61	150	1.1
	150	1.8	2.5	36.5	46.3	7000	0.124	0.1500	0.076	0.168	1.61	211	0.74
	185	2.0	2.5	40.7	50.7	8500	0.0991	0.1206	0.076	0.142	1.64	230	0.68
	240	2.2	2.5	46.0	56.2	10600	0.0754	0.0930	0.075	0.119	1.71	260	0.60
	300	2.4	2.5	51.0	61.6	12900	0.0601	0.0753	0.075	0.106	1.77	289	0.54
400	2.6	2.5	57.0	68.0	15900	0.0470	0.0604	0.074	0.096	1.85	319	0.49	
Four Core Steel Wire Armour	25*	1.2	1.6	22.6	29.4	2200	0.727	0.8689	0.087	0.873	1.02	76	2.10
	35*	1.2	1.6	25.2	32.2	2600	0.524	0.6273	0.081	0.633	1.18	84	1.90
	50	1.4	2.0	26.6	34.6	3600	0.387	0.4635	0.081	0.471	1.20	122	1.30
	70	1.4	2.0	30.2	38.4	4600	0.268	0.3202	0.079	0.330	1.39	138	1.20
	95	1.6	2.0	35.1	43.5	5900	0.193	0.2319	0.078	0.245	1.45	160	0.98
	120	1.6	2.5	38.3	48.1	7600	0.153	0.1844	0.076	0.199	1.61	220	0.71
	150	1.8	2.5	42.4	52.4	9000	0.124	0.1500	0.076	0.168	1.61	240	0.65
	185	2.0	2.5	47.2	57.4	10900	0.0991	0.1206	0.076	0.142	1.64	265	0.59
	240	2.2	2.5	53.5	64.1	13700	0.0754	0.0930	0.075	0.119	1.71	299	0.52
300	2.4	2.5	59.4	70.4	16600	0.0601	0.0753	0.075	0.106	1.77	333	0.47	
400	2.6	3.15	66.4	79.3	21500	0.0470	0.0604	0.074	0.096	1.85	467	0.34	

All of the above information, including drawings, illustrations and graphic designs, reflects our present understanding and is to the best of our knowledge and belief correct reliable. Users, however, should independently evaluate the suitability of each product for the desired application. Under no circumstances does this constitute an assurance any particular quality or performance. Such an assurance is only provided in the context of our product specifications or explicit contractual arrangements. Our liability for products set forth our standard terms and conditions of sale



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