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## **KS SANS IEC BS standard 600/1000V Split Concentric Service Cable**

KS 04-1022 Kenya Standard, BS 7870 British Standard, SANS1507 South Africa Standard, IEC60502,

### **APPLICATION**

Split Concentric Service entrance cable is primarily used to convey power from the Aerial Bundled Cable to the meter base and from the meter base to the distribution panelboard, should be suitable for laying in cable ducts and in air.

### **CONSTRUCTION**

Split Concentric Service entrance cable is constructed with Annealed (soft) copper Conductor. Aluminium 1350 Conductor, AA-8000 series aluminum alloy Conductor. Copper clad aluminum Conductor. Compact stranded with PVC/XLPE insulation and PVC/PE/XLPE overall sheath.



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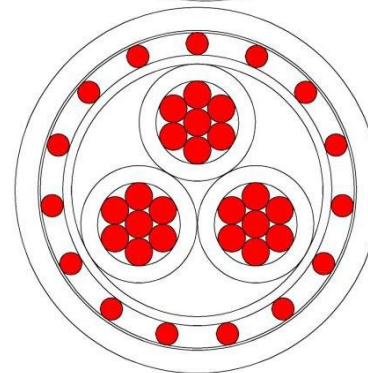
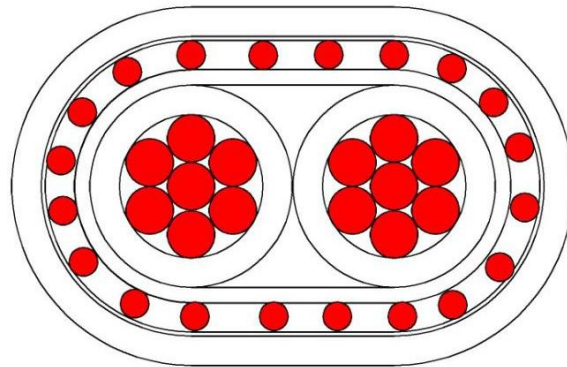
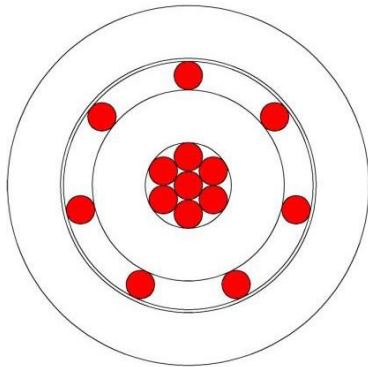
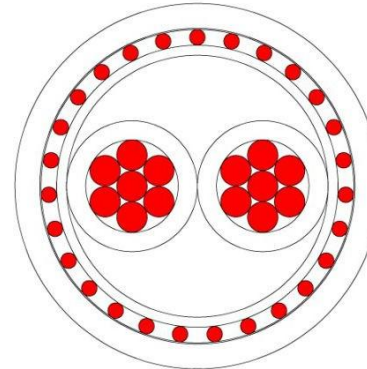
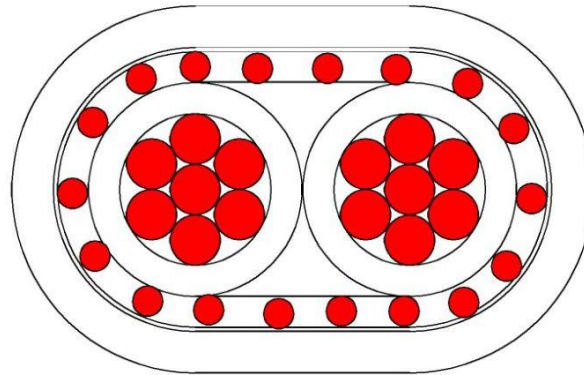
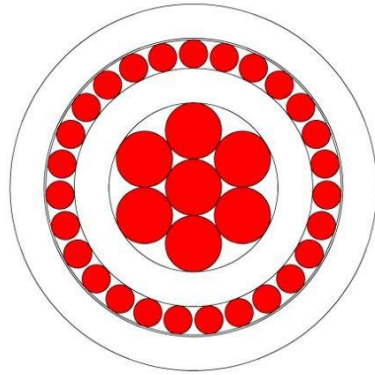
HENAN QINGZHOU ELECTRICAL CABLE CO., LTD

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# Single phase

## Standard: KS 04-1022 Single phase without communication pair (Aluminum)

Phase Conductor			Concentric neutral conductor: number. & approx. diameter of wires No./mm	Minimum lay lengths	Thicknes s of oversh eat hmm	Approximate overall diameter	Maximum conductor de resistance per 1000m of cable at20°C	
Nomi nal area	No. & approx dia. of wires mm	Thickne ss of insulati on mm					Phase ohms	Neutral
10	7/1.35	1.55	23/1.13	146.5	1.4	12.21	3.08	1.335
16	7/1.70	1.55	26/1.13	155	1.4	13.34	1.91	1.808
25	7/2.14	1.60	29/1.13	165	1.5	14.88	1.20	1.0586
35	19/1.53	1.65	27/1.35	178	1.6	16.75	0.868	0.7966

## Standard: KS 04-1022 Single phase without communication pair (Aluminum)

Property		Cable sizes			
Phase Conductor	Nominal area, mm,	10	16	25	35
	Form of conductors	Circular/compacted circular stranded			
	No. & approx. dia. of wires, No./mm	7/1.35	7/1.70	7/2.14	7/2.52
	Min-Max. dia of completed conductors, mm	*	4.6-5.2	5.6-6.5	6.6-7.6
	Nominal diameter of conductors, mm	4.05	5.10	6.42	7.56
	Minimum thickness of insulation mm	1.55	1.55	1.60	1.65
	Concentric neutral Approx, no. of wires	7	11	14	16
Property		Cable sizes			
conductors	Approx, diameter of wires, mm	1.50	1.50	1.50	1.50
	Minimum lay lengths, mm	146.5	155	165	178
	Thickness of over sheath, mm	1.4	1.4	1.5	1.6
	Minimum thickness of over sheath at any point	1.09	1.09	1.17	1.20
Maximum conductor de resistance per 1000m of cable at 20°C	Phase, Q	3.08	1.15	1.20	0.868
	Neutral-earth, Q	4.61	3.08	1.91	1.20
	Maximum weight of the complete conductor excluding •sulations	*	43.9	69.5	96.4
	Power frequency withstand voltage, for 5mins, kVrms	3.5			

# Single phase

Insulation resistance at 500Vdc in 1min at 20°C., MQ/Km	8	8	6	5
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\* Manufacturer to state the design value based on the sizes of conductors specified

## Standard: KS O4-1022 and IEC 60502 (Copper)

Nominal cross-section	Strands number of conductor	Insulation nominal thickness	Bare Concentric conductor		Overall jacket nominal thickness	Approx. overall diameter	Approx. weight of compacted cable	DC resistance at 20°C	Ambient temperature 30°C, frequency 40~60Hz
			diameter of single wire	number of single wire					Operating temperature 70°C
mm <sup>2</sup>	Nos	mm	mm	Nos	mm	mm	kg/km	Ω/KM	A
4	7	1.55	0.85	24	1.4	9.75	250	4.61	50
6	7	1.55	0.85	26	1.4	10.72	286	3.08	64
10	7	1.55	0.85	28	1.4	11.73	347	1.83	87
16	7	1.55	0.85	32	1.4	12.78	437	1.15	115
25	7	1.60	1.13	29	1.5	14.88	650	0.727	153
35	19	1.65	1.35	27	1.6	16.75	862	0.524	188

## Standard: IEC 60502 single phase without communication pair (Copper)

Nominal cross-section	Strands number of conductor	Insulation nominal thickness	Bare Concentric conductor		Overall jacket nominal thickness	Approx. overall diameter	Approx. weight of compacted cable	DC resistance at 20°C	Ambient temperature 30°C, frequency 40~60Hz
			Min. diameter of single wire	Min. number of single wire					Operating temperature 90°C
mm <sup>2</sup>	Nos	mm	mm	Nos	mm	mm	kg/km	Ω/KM	A
4	7	1.0	0.8	7	1.4	9.25	130	4.61	69
6	7	1.0	0.8	7	1.4	10.20	174	3.08	88
10	7	1.2	0.8	7	1.4	11.75	260	1.83	121
16	7	1.4	0.8	7	1.4	12.80	376	1.15	158
25	7	1.4	0.8	7	1.4	14.09	550	0.727	207
35	7	1.4	0.8	7	1.4	15.86	758	0.524	251

# Single phase

## Standard: IEC 60502 single phase with communication pair (Copper)

Nominal cross-section	Strands number of conductor	Insulation nominal thickness	Bare Concentric conductor		Communication pair		Overall jacket nominal thickness	Approx. overall diameter	Approx. weight of compacted cable	DC resistance at 20°C	Ambient temperature 30°C, frequency 40~60Hz
			Min. diameter of single wire	Min. number of single wire	Diameter	DC resistance at 20°C					Operating temperature 70°C
mm <sup>2</sup>	Nos	mm	mm	Nos	mm	Ω/KM	mm	mm	kg/km	Ω/KM	A
4	7	1.0	0.8	7	0.8	36	1.4	9.75	134	4.61	67
6	7	1.0	0.8	7	0.8	36	1.4	10.72	177	3.08	85
10	7	1.2	0.8	7	0.8	36	1.4	11.73	261	1.83	118
16	7	1.4	0.8	7	0.8	36	1.4	12.78	377	1.15	155

## Standard: IEC 60502 and BS 7870 single phase split with communication pair (Copper)

Nominal cross section	Strands number of conductor	Insulation nominal thickness	Individual insulation Concentric conductor		Communication pair		Earth conductor		Overall jacket nominal thickness	Approx. overall diameter	Approx. weight of compacted cable	DC resistance at 20°C	Ambient temperature 30°C, frequency 40~60Hz
			Min. diameter of single wire	Min. number of single wire	Nominal cross section	DC resistance at 20°C	Nominal cross section	DC resistance at 20°C					Operating temperature 70°C
mm <sup>2</sup>	Nos	mm	mm	Nos	mm <sup>2</sup>	Ω/KM	mm <sup>2</sup>	Ω/KM	mm	mm	Kg/km	Ω/KM	A
4	7	1.0	0.8	7	0.5	36	2.5	7.41	1.4	10.35	171	4.61	67
6	7	1.0	0.8	7	0.5	36	4	4.61	1.4	12.62	332	3.08	85
10	7	1.2	0.8	7	0.5	36	6	3.08	1.4	13.65	353	1.83	118
16	7	1.4	0.8	7	0.5	36	10	1.83	1.4	15.40	515	1.15	155

# Three phase

## Standard: IEC 60502 Three phase without communication pair

Nominal cross-section	Strands number of conductor	Insulation nominal thickness	Bare Concentric conductor		Overall jacket nominal thickness	Approx. overall diameter	Approx. weight of compacted cable	DC resistance at 20°C	Ambient temperature 30°C, frequency 40~60Hz
			Min. diameter of single wire	Min. number of single wire					Operating temperature 90°C
mm <sup>2</sup>	Nos	mm	mm	Nos	mm	mm	kg/km	Ω/KM	A
4	7	0.7	0.8	7	1.8	16.62	261	4.61	43
6	7	0.7	0.8	7	1.8	18.08	348	3.08	55
10	7	0.7	0.8	7	1.8	20.14	511	1.83	75
16	7	0.7	0.8	7	1.8	22.60	748	1.15	100
25	7	0.9	0.8	7	1.8	26.26	1130	0.727	132
35	7	0.9	0.8	7	1.9	29.02	1540	0.524	161

## Standard: IEC 60502 Three phase with communication pair

Nominal cross section	Strands number of conductor	Insulation nominal thickness	Bare Concentric conductor		Communication pair		Overall jacket nominal thickness	Approx. overall diameter	Approx. weight of compacted cable	DC resistance at 20°C	Ambient temperature 30°C, frequency 40~60Hz
			Min. diameter of single wire	Min. number of single wire	Nominal cross section	DC resistance at 20°C					Operating temperature 90°C
mm <sup>2</sup>	Nos	mm	mm	Nos	mm <sup>2</sup>	Ω/KM	mm	mm	kg/k m	Ω/KM	A
4	7	0.7	0.8	7	0.5	36	1.8	16.62	261	4.61	43
6	7	0.7	0.8	7	0.5	36	1.8	18.08	348	3.08	55
10	7	0.7	0.8	7	0.5	36	1.8	20.14	511	1.83	75
16	7	0.7	0.8	7	0.5	36	1.8	22.60	748	1.15	100
25	7	0.9	0.8	7	0.5	36	1.8	26.26	1130	0.727	132
35	7	0.9	0.8	7	0.5	36	1.9	29.02	1540	0.524	161

