

## CONGO CABLES AND TRANFORMERS SAS

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				NICAL DATASHEET (TDS)	
	Descr	ription :2C X 1.5 Sq.mm, Flexible Copper Conductor, I	VC Insula		
Aake Descri	intion			CONGO CABLES & TRANSFORMERS CU/PVC-FR	
				As per SANS:1574-3	
Reference Standard Voltage Grade			600/1000 VOLT		
onag		ue	l	Features	
)neraí	tina Te	emperature		70°C	
		During Short Circuit		160°C	
	emp.	Samy offer enour		Application	
or out	tdoor f	ixed installation and its normally used for power distribution	n in urban r		
		aying in ducts or on trays in free air		······	
				Construction	
S.No.		Description of Parameter	Unit	Particulars	
1		Conductor			
	1.1	Material/Grade		Copper Conductor Class - 5 ( As per SANS 1411-1)	
		Application		Flexible	
		Size of Single Wire in Bunched(Max.)	mm	0.26	
		Nom. Cross Section Area of Cond.	Sq.mm	1.5	
	1.5	D.C Conductor Resistance at 20°C (Max.)	Ώ/Km	13.3	
2		Insulation			
	2.1	Material		Extruded PVC -D 3	
		Colour of Insulated Core		AS PER CUSTOMER REQUIRMENT	
		Insulation Thickness (Nom)	mm	0.80	
		Insulation Thickness (Min)	mm	0.62	
		Over all Diameter of cable(Approx)	mm	3.2	
	2.6	Colour of Insulated Core	mm	RED BLACK	
3	<b>.</b> .	Laying Up			
		Application		All Cores laidup together suitable lay with right hand lay	
		r Sheath	1		
		Material		Extruded PVC S-3	
		Colour of Outer Sheath		BLACK	
		Over all Diameter of cable(Approx)	mm	9.6	
		Outer Sheath Thickness (Nominal) Outer Sheath Thickness (Min)	mm	1.60	
		Height Of Marking ( Max. )	mm	1.20 13 mm ( Max. ) and Min ( 3.0 mm )	
		Gap Of Marking End of The one Legend and Beginning	mm		
		of the next Legend (Max.)	mm	550 mm	
5			Physic	al Parameter for Finished Cables	
•		Before Ageing (INSULATION & SHEATHING)			
	5.1	Tensile Stregth (Min)	Мра	10	
		Elongation (Min)	%	150	
	5.3	After Ageing (INSULATION & SHEATHING)		80°C , 168 HRS	
	5.4	Tensile Stregth ( Min )	1	· · · · · · · · · · · · · · · · · · ·	
	5.5	Variation from unaged value, max.	%	±20	
		Elongation (Min)			
	5.7	Variation from unaged value, max.	%	±20	
		Limiting Oxygen Index (Min.)	%	27	
	5.9	Heat Shock (+150°c)	Visual	No sign of internal or external cracking	
	5.11	Bending in Low Temperature ( -15 °c)	Visual	No sign of internal or external cracking	
		Resistance to burning			
	5.12	Top support to char onset, min.	mm	50	
	5.13	Top support to char lower end, max	mm	540	
		Hot Deformation Test			
		Temperature (tolerance ± 2 °C)	°C	80	
	5.15	Depth of indentation, max	%	50	
6				ectrical Data fpr Finshed Cable	
		D.C Conductor Resistance at 20°C (Max.)	Ω/Km	13.3	
		Insulation resistancea at 70 °C ( Min )	mΩ- km		
			Ω-м	2 x 10 <sup>11</sup>	
		Insulation Volume Resistivity At 23 °C			
		Insulation Volume Resistivity At 23 °C		Packing	
7	6.3	Insulation Volume Resistivity At 23 °C		CONGO CABLES & TRANSFORMERS , 2C X 1.5 SQ.MM, 600/1000 VOLT SANS 1574-3 , Year	
7	6.3 7.1	Marking over the Cable		CONGO CABLES & TRANSFORMERS , 2C X 1.5 SQ.MM, 600/1000 VOLT SANS 1574-3 , Year Manufacturing	
7	6.3 7.1 7.2		Meters Meters	CONGO CABLES & TRANSFORMERS , 2C X 1.5 SQ.MM, 600/1000 VOLT SANS 1574-3 , Year	