CONGO CABLES & TRANSFORMERS

## CONGO CABLES AND TRANFORMERS SAS



				NICAL DATASHEET (TDS)
	Descr	iption :2C X 10 Sq.mm, Flexible Copper Conductor, F	VC Insulat	
Make				CONGO CABLES & TRANSFORMERS
Descri				CU/PVC-FR
Reference Standard				As per SANS:1574-3
Voltag	je Grad	de		600/1000 VOLT
			r	Features
		emperature		70°C
Max. T	emp.	During Short Circuit		160°C
				Application
		ixed installation and its normally used for power distribution	n in urban r	network and industrial plants
Suitab	le for la	aying in ducts or on trays in free air		Our standard
0.11			11.96	Construction
S.No.		Description of Parameter Conductor	Unit	Particulars
1	4 4			
		Material/Grade		Copper Conductor Class - 5 ( As per SANS 1411-1)
	1.2 1.3	Application Size of Single Wire in Bunched(Max.)	mm	Flexible 0.41
			mm	
		Nom. Cross Section Area of Cond.	Sq.mm	10
~	1.5	D.C Conductor Resistance at 20°C (Max.)	Ώ/Km	1.91
2	0.1	Insulation	+	
		Material		Extruded PVC -D 3
		Colour of Insulated Core		AS PER CUSTOMER REQUIRMENT
		Insulation Thickness (Nom)	mm	1.00
		Insulation Thickness (Min)	mm	0.80
		Over all Diameter of cable(Approx)	mm	5.2
	2.6	Colour of Insulated Core	mm	RED BLACK
3		Laying Up		
		Application		All Cores laidup together suitable lay with right hand lay
4		r Sheath		
		Material		Extruded PVC S-3
		Colour of Outer Sheath		BLACK
	4.3	Over all Diameter of cable(Approx)	mm	14.0
		Outer Sheath Thickness (Nominal)	mm	1.80
	4.5	Outer Sheath Thickness (Min)	mm	1.43
	4.6	Height Of Marking (Max.)	mm	13 mm ( Max. ) and Min ( 3.0 mm )
	4.0	Gap Of Marking End of The one Legend and Beginning		FE0
	4.8	of the next Legend( Max.)	mm	550 mm
5			Physic	cal Parameter for Finished Cables
		Before Ageing (INSULATION & SHEATHING)		
	5.1	Tensile Stregth (Min)	Мра	10
	5.2	Elongation (Min)	%	150
	5.0			0000 400 UPC
	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)		
		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
	1	Resistance to burning		
	5 12	Top support to char onset, min.	mm	50
		Top support to char lower end, max	mm	540
	0.10	Hot Deformation Test		
	5 1/	Temperature (tolerance ± 2 °C)	°C	80
		Depth of indentation, max	%	50
6	0.10			ectrical Data fpr Finshed Cable
U	6.1	D.C Conductor Resistance at 20°C (Max.)		
		Insulation resistance at 70 °C (Max.)	Ω/Km	0.00610
			mΩ- km	
7	6.3	Insulation Volume Resistivity At 23 °C	Ω-м	2 x 10 <sup>11</sup>
7	<u> </u>		1	Packing
	7.1	Marking over the Cable		CONGO CABLES & TRANSFORMERS, 2C X 10 SQ.MM, 600/1000 VOLT SANS 1574-3, Year o
			Matrix	Manufacturing
		Sequentail Length Marking	Meters	Shall be provided on surface at every one Meter
	7.3	Cable Length Type of Drum	Meters	Multiple of 100/250/500/1000 or as per Requirement Wooden Drum Fully Packed with Lagging and Coils in wrapping