CONGO CABLES & TRANSFORMERS

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IEUHNIUAL DATASHEET (TDS)					
Cable Description :20 X 2.5 Sq.mm, Flexible Copper Conductor, PVC Insulat					
Descri	Make				
Reference Standard				Δs.ner. SΔNS:1574-3	
Voltage Grade				600/1000 VOLT	
				Features	
Operating Temperature				70°C	
Max. Temp. During Short Circuit				160°C	
Application					
For ou	tdoor f	ixed installation and its normally used for power distribution	etwork and industrial plants		
Suitable for laving in ducts or on travs 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)	
	1.2	Application		Flexible	
	1.3	Size of Single Wire in Bunched(Max.)	mm	0.26	
	1.4	Nom. Cross Section Area of Cond.	Sq.mm	2.5	
	1.5	D.C Conductor Resistance at 20°C (Max.)	Ώ/Km	7.98	
2		Insulation			
	2.1	Material		Extruded PVC -D 3	
<u> </u>	2.2	Colour of Insulated Core		AS PER CUSTOMER REQUIRMENT	
<u> </u>	2.3	Insulation Thickness (Nom)	mm	0.80	
	2.4	Insulation Thickness (Min)	mm	0.62	
	2.5	Over all Diameter of cable(Approx)	mm	3./ DED DLAOK	
2	2.6		mm	RED BLACK	
3	2.1	Laying Op Application		All Corpo, laidup together quitable low with right hand low	
4	5.1	Outor Shoath		All coles failuup together suitable lay with right flahu lay	
4	11	Material		Extruded PV/C S-3	
	4.1	Colour of Outer Sheath		BI ACK	
	43	Over all Diameter of cable(Approx)	mm	10.6	
	4.0	Outer Sheath Thickness (Nominal)	mm	160	
	4.5	Outer Sheath Thickness (Min)	mm	1.26	
	4.6	Height Of Marking (Max.)	mm	13 mm (Max.) and Min (3.0 mm)	
	4 7	Gap Of Marking End of The one Legend and Beginning		550	
	4.7	of the next Legend(Max.)	mm	mm ucc	
5	Physical Parameter for Finished Cables				
		Before Ageing (INSULATION & SHEATHING)			
	5.1	Tensile Stregth (Min)	Mpa	10	
	5.2	Elongation (Min)	%	150	
				80°C . 168 HRS	
		After Ageing (INSULATION & SHEATHING)			
	5.3	Tensile Stregth (Min)	<u> </u>	.00	
	5.4 5.7	Variation I for unaged value, max.	%	±20	
<u> </u>	0.0 5.6	Variation from unaged value, max	0/	±00	
	5.0	Limiting Oxygon Indox (Min)	/0	12U 97	
	5.7	Heat Shock (+150%)	/0 Visual	21 No sign of internal or external gracking	
	5.9	Bending in Low Temperature (-15 %)	Visual	No sign of internal or external cracking	
<u> </u>	5.11	Resistance to burning	ViSual	no sign of memorial of external ordering	
	5 12	Ton support to char onset min	mm	50	
	5 13	Top support to char lower end max	mm	540	
	5.14	Hot Deformation Test		- 10	
	1	Temperature (tolerance ± 2 °C)	°C	80	
	5.15	Depth of indentation, max	%	50	
6	6 Electrical Data fpr Finshed Cable				
	6.1	D.C Conductor Resistance at 20°C (Max.)	Ω/Km	7.98	
	6.2	Insulation resistancea at 70 °C (Min)	mΩ- km	0.00900	
	6.3	Insulation Volume Resistivity At 23 °C	Ω-м	2 x 10 ¹¹	
7				Packing	
1	7.1	Marking over the Cable		CONGO CABLES & TRANSFORMERS , 2C X 2.5 SQ.MM, 600/1000 VOLT SANS 1574-3 , Year of	
			.	Manufacturing	
<u> </u>	1.2	Sequental Length Marking	Meters	Shall be provided on surface at every one Meter	
<u> </u>	1.3	Cable Length	Meters	Multiple of 100/250/500/1000 or as per Requirement	
L	1.4	Type of Drum		Wooden Drum Fully Packed with Lagging and Coils in wrapping	