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 ¹¹ |
| 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 |