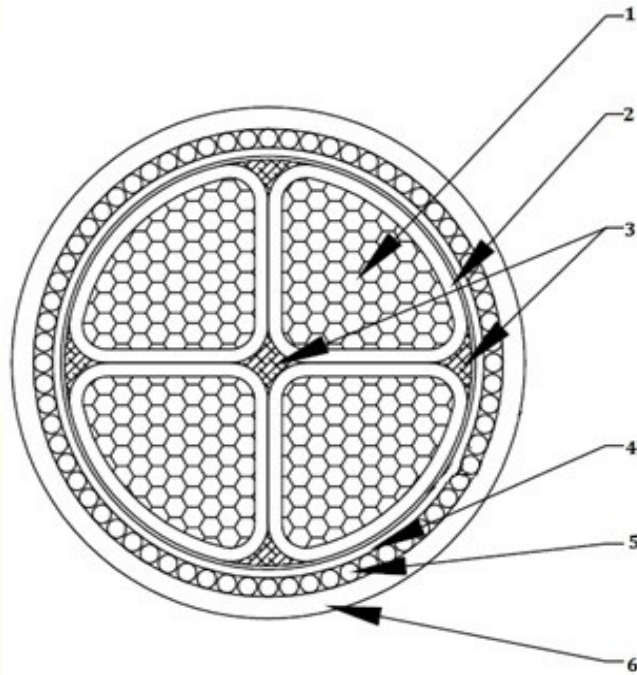


# TECHNICAL DATA SHEET

**1 kV, 4 C x 25 Cu (C12)/XLPE/PVC/SWA/PVC**



D.REF : 203

REF : STD TDS\_0\_ID 54

**Product Standard**

BS 5467

**Performace Standard (Flame / Fire - Test)**

IEC 60332 - 1

**Rated voltage (Uo/U) (Um)**

0.6/1 (1.2) kV

## 1 Sectral Stranded Copper Class : 2 Conductor

Number of Core(s)	4	Nos
Nominal cross sectional area	25	mm <sup>2</sup>
Approx. Diameter of Conductor	Sectoral	mm

## 2 Insulation - XLPE

Color (s)	Red, Yellow, Blue, Black,	
Nominal Thickness	0.9	mm
Approx. Diameter over Insulation	Sectoral	mm

## 3 4 Core Laid up with Non Hygroscopic PP Yarn Fillers and Followed by Binder Tape

Approx. Diameter over Laid Up	17.8	mm
-------------------------------	------	----

## 4 Extruded Bedding - PVC

Nominal Thickness	1	mm
Approx. Diameter over bedding	19.9	mm

## 5 Armor - Type: Steel Wire

Nominal Diameter of wire	1.6	mm
Approx. Diameter over armour	23	mm

# TECHNICAL DATA SHEET



**1 kV, 4 C x 25 Cu (Cl2)/XLPE/PVC/SWA/PVC**

## 6 Extruded Outer Sheath - PVC (Black)

Nominal Thickness	1.7	mm
Approx. Diameter over outer sheath	25.6	mm
<b>7 Approx. Weight of complete cable</b>	1825	kg / km

## 8 Electrical Parameters

Max. DC Resistance of Conductor at 20°C	0.727	Ω/km
Approx. AC Resistance of Conductor at Maximum Operating Temperature	0.9273	Ω/km
Approx. Capacitance	0.41	μF / km
Approx. Inductance	0.25	mH / km
Approx. Inductive Reactance	0.079	Ω/km
Approx. Impedance	0.93	Ω/km
Approx. Voltage Drop	1.65	mV/Amp/mt

## 9 CURRENT CARRYING CAPACITY based on the conditions specified

Installation Type (Single Circuit)	3 core	
Soil Thermal Resistivity	1.2	°C.m/W
Ground temperature	15	°C
Ambient air temperature	30	°C
Burial depth	500	mm
Laid in ground	150	Amps
Laid in Duct	125	Amps
In air	131	Amps

## 10 Maximum conductor temperature for continuous operation / Short Circuit Operation

90/250 °C

## 11 Short Circuit Current carrying capacity for 1 second, cable loaded as above prior to short circuit for

Conductor	3.575	kA/ 1 sec
-----------	-------	-----------

## 12 Installation Parameters

Maximum pulling force (For Conductor)	600	kgf
Minimum Bending Radius	208	mm

*\*Drawing not to Scale*

*\*All dimensions and weight mentioned are approximate.*

*\*Refer " **Ducab Drum Handling, Storing and Installation Guide** " for more details on Drum Handling.*

*\*This TDS is Auto-Generated from Design Data Base, Hence no signature is required.*