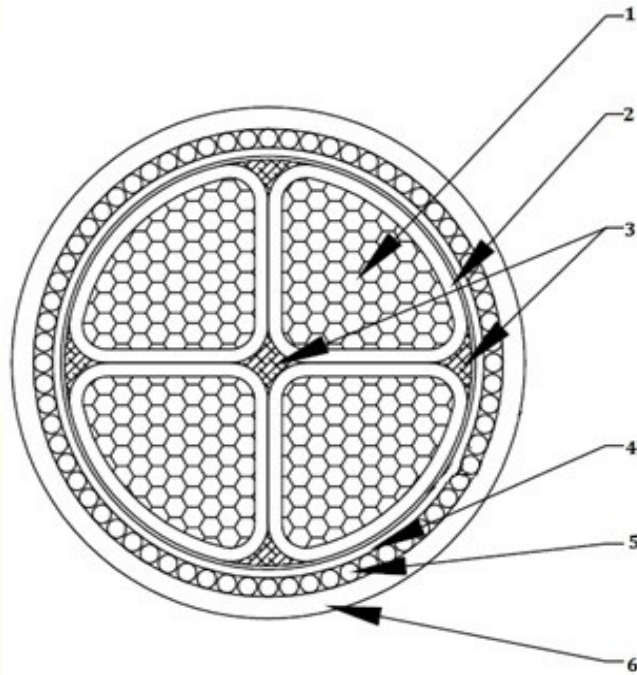


TECHNICAL DATA SHEET

1 kV, 4 C x 70 Cu (C12)/XLPE/PVC/SWA/PVC



D.REF : 203

REF : STD TDS_0_ID 57

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	70	mm ²
Approx. Diameter of Conductor	Sectoral	mm

2 Insulation - XLPE

Color (s)	Red,Yellow,Blue,Black,	
Nominal Thickness	1.1	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	27	mm
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4 Extruded Bedding - PVC

Nominal Thickness	1.2	mm
Approx. Diameter over bedding	29.1	mm

5 Armor - Type: Steel Wire

Nominal Diameter of wire	2	mm
Approx. Diameter over armour	33	mm

TECHNICAL DATA SHEET



1 kV, 4 C x 70 Cu (Cl2)/XLPE/PVC/SWA/PVC

6 Extruded Outer Sheath - PVC (Black)

Nominal Thickness	2.1	mm
Approx. Diameter over outer sheath	36.4	mm
7 Approx. Weight of complete cable	4095	kg / km

8 Electrical Parameters

Max. DC Resistance of Conductor at 20°C	0.268	Ω/km
Approx. AC Resistance of Conductor at Maximum Operating Temperature	0.3426	Ω/km
Approx. Capacitance	0.51	μF / km
Approx. Inductance	0.24	mH / km
Approx. Inductive Reactance	0.075	Ω/km
Approx. Impedance	0.35	Ω/km
Approx. Voltage Drop	0.6	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	265	Amps
Laid in Duct	215	Amps
In air	251	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	10.01	kA/ 1 sec
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12 Installation Parameters

Maximum pulling force (For Conductor)	1680	kgf
Minimum Bending Radius	296	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.*