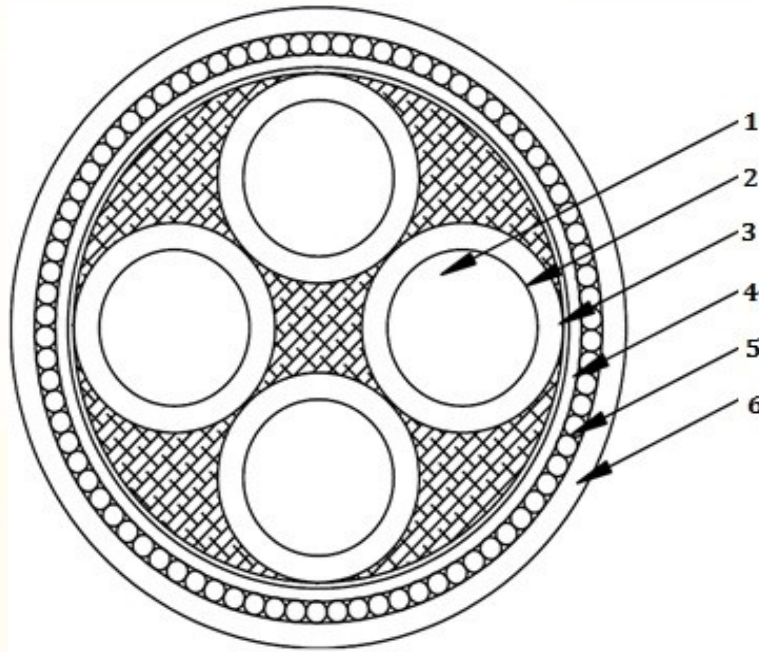


TECHNICAL DATA SHEET

1 kV, 4 C x 16 Cu (C12)/XLPE/PVC/SWA/PVC



D.REF : 130

REF : STD TDS_0_ID 53

Product Standard

BS 5467

Performace Standard (Flame / Fire - Test)

IEC 60332 - 1

Rated voltage (Uo/U) (Um)

0.6/1 (1.2) kV

1 Circular Stranded Copper Class : 2 Conductor

Number of Core(s)	4	Nos
Nominal cross sectional area	16	mm ²
Approx. Diameter of Conductor	4.7	mm

2 Insulation - XLPE

Color (s)	Red, Yellow, Blue, Black,	
Nominal Thickness	0.7	mm
Approx. Diameter over Insulation	6.2	mm

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

Approx. Diameter over Laid Up	15	mm
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4 Extruded Bedding - PVC

Nominal Thickness	0.8	mm
Approx. Diameter over bedding	17.1	mm

5 Armor - Type: Steel Wire

Nominal Diameter of wire	1.25	mm
Approx. Diameter over armour	19.5	mm

TECHNICAL DATA SHEET



1 kV, 4 C x 16 Cu (Cl2)/XLPE/PVC/SWA/PVC

6 Extruded Outer Sheath - PVC (Black)		
Nominal Thickness	1.6	mm
Approx. Diameter over outer sheath	22	mm
7 Approx. Weight of complete cable	1231	kg / km
8 Electrical Parameters		
Max. DC Resistance of Conductor at 20°C	1.15	Ω/km
Approx. AC Resistance of Conductor at Maximum Operating Temperature	1.4666	Ω/km
Approx. Capacitance	0.4	μF / km
Approx. Inductance	0.26	mH / km
Approx. Inductive Reactance	0.081	Ω/km
Approx. Impedance	1.47	Ω/km
Approx. Voltage Drop	2.5	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	115	Amps
Laid in Duct	94	Amps
In air	99	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	2.288	kA/ 1 sec
12 Installation Parameters		
Maximum pulling force (For Conductor)	384	kgf
Minimum Bending Radius	138	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.*