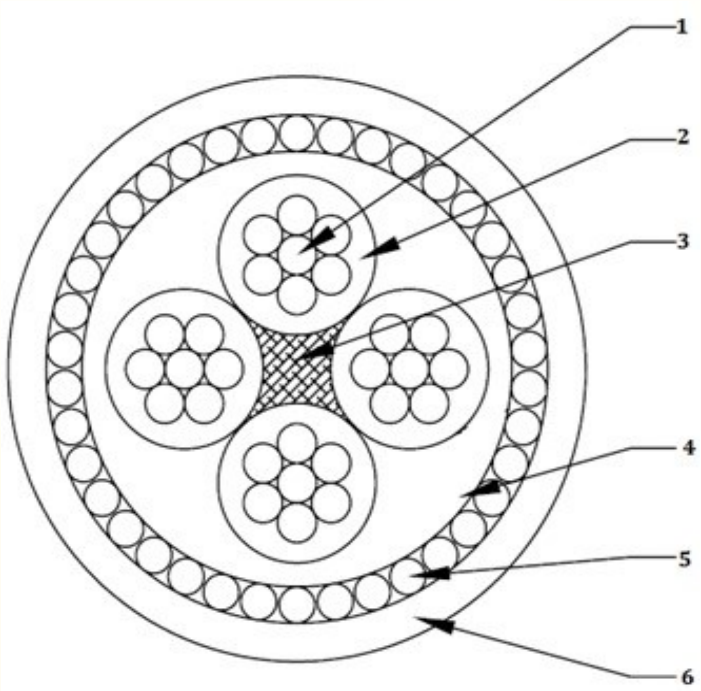
TECHNICAL DATA SHEET

1 kV, 4 C x 10 Cu (Cl2)/XLPE/PVC/SWA/PVC



D.REF : 172

REF : STDTDS_0_ID 52

	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	**10**	mm^2
	Approx. Diameter of Conductor	3.72	mm
2	**Insulation - XLPE**		
	Color (s)	**Red,Yellow,Blue,Black,**	
	Nominal Thickness	0.7	mm
	Approx. Diameter over Insulation	5.2	mm
3	**4 Core Laid up with PP Center Filler**		
	Approx. Diameter over Laid Up	12.6	mm
4	**Extruded Bedding - PVC**		
	Nominal Thickness	0.8	mm
	Approx. Diameter over bedding	14.7	mm
5	**Armor - Type: Steel Wire**		
	Nominal Diameter of wire	1.25	mm
	Approx. Diameter over armour	17.1	mm

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6	**Extruded Outer Sheath - PVC (Black)**		
	Nominal Thickness	1.5	mm
	Approx. Diameter over outer sheath	19.4	mm
7	**Approx. Weight of complete cable**	980	kg / km
8	**Electrical Parameters**		
	Max. DC Resistance of Conductor at 20°C	1.83	Ω/km
	Approx. AC Resistance of Conductor at Maximum Operating Temperature	2.3335	Ω/km
	Approx. Capacitance	0.61	µF / km
	Approx. Inductance	0.29	mH / km
	Approx. Inductive Reactance	0.083	Ω/km
	Approx. Impedance	2.33	Ω/km
	Approx. Voltage Drop	4	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	92	Amps
	Laid in Duct	75	Amps
	In air	78	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	1.43	kA/ 1 sec
12	**Installation Parameters**		
	Maximum pulling force (For Conductor)	240	kgf
	Minimum Bending Radius	120	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.*