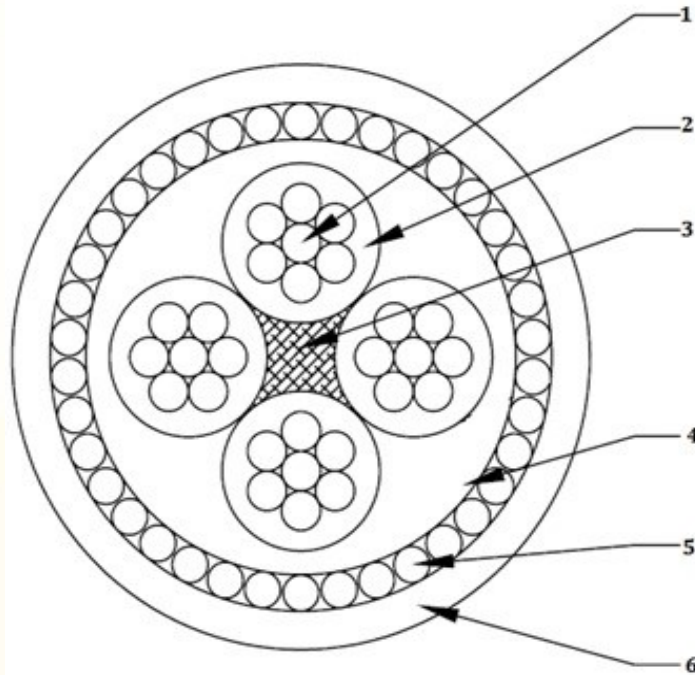


TECHNICAL DATA SHEET

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



D.REF : 172

REF : STDTDS_0_ID 50

Product Standard

BS 5467

Performance Standard (Flame / Fire - Test)

IEC 60332 - 1

Rated voltage (U₀/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	4	mm ²
Approx. Diameter of Conductor	2.38	mm

2 Insulation - XLPE

Color (s)	Red, Yellow, Blue, Black,
Nominal Thickness	0.7 mm
Approx. Diameter over Insulation	3.9 mm

3 4 Core Laid up with PP Center Filler

Approx. Diameter over Laid Up	9.4 mm
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4 Extruded Bedding - PVC

Nominal Thickness	0.8 mm
Approx. Diameter over bedding	11.5 mm

5 Armor - Type: Steel Wire

Nominal Diameter of wire	0.9 mm
Approx. Diameter over armour	13.2 mm

TECHNICAL DATA SHEET



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

6 Extruded Outer Sheath - PVC (Black)

Nominal Thickness	1.4	mm
Approx. Diameter over outer sheath	15.3	mm

7 Approx. Weight of complete cable

527 kg / km

8 Electrical Parameters

Max. DC Resistance of Conductor at 20°C	4.61	Ω/km
Approx. AC Resistance of Conductor at Maximum Operating Temperature	5.8782	Ω/km
Approx. Capacitance	0.44	μF / km
Approx. Inductance	0.31	mH / km
Approx. Inductive Reactance	0.092	Ω/km
Approx. Impedance	5.88	Ω/km
Approx. Voltage Drop	10	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	55	Amps
Laid in Duct	45	Amps
In air	44	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	0.572	kA/ 1 sec
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12 Installation Parameters

Maximum pulling force (For Conductor)	96	kgf
Minimum Bending Radius	96	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.*