BS6622 - 6.35/11kv 3 core SWA

Armoured 3-core XLPE insulated MV cable. Rated voltage 6.35/11 KV

DESCRIPTION

Electric cable with copper conductors, semiconductive conductor screen, XLPE insulation, semiconductive insulation screen, copper tape metallic screen of each core, PVC bedding, galvanized steel wires armour (SWA) and PVC outer sheath

Application

for energy networks where mechanical stresses are expected. Suitable for underground installation or in ducts

The cable is suitable for rated voltage 6/10KV according to IEC 60502-2

Design

1. copper conductor
2. semiconductive conductor screen
3. XLPE insulation
4. semiconductive insulation screen
5. metallic screen
6. PVC bedding
7. galvanized steel wires armour
8. PVC outer sheath

Single core xables are with Aluminium wires armour (AWA) with designation: CU/ XLPE/AWA/PVC 6.35/11KV

STANDARDS

International IEC 60502-2

National BS 6622

CHARACTERISTICS

Construction characteristics	
Conductor material	Copper
Conductor shape	Circular
Conductor flexibility	Stranded class 2
Material of the inner semi-conductor	Semi-conducting compound
Insulation	XLPE (chemical)
Material of the external semi-conductor	Extruded strippable

Conductor flexibility
Stranded class 2

Lead free
Yes

Rated Voltage Uo/U (Um)
6.35 / 11 kV

Max. conductor temperature in service
90 °C

Flame retardant
IEC 60332-1

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Construction characteristics	
Screen	Bare copper
Inner sheath	PVC
Armour type	Galvanized steel wires
Outer sheath	PVC
Colour	Red
Lead free	Yes
Dimensional characteristics	
Number of cores	3
Electrical characteristics	
Rated Voltage Uo/U (Um)	6.35 / 11 kV
Usage characteristics	
Max. conductor temperature in service	90 °C
Short-circuit max. conductor temperature	250 °C
Flame retardant	IEC 60332-1

TECHNICAL DATA

Cross section [mm²]	Nom. outer diam. [mm]	Approx. weight [kg/km]	Max. DC Resist. Cond. 20°C [Ohm/km]
16	44.7	3750	1.15
25	48.0	4050	0.727
35	49.0	4400	0.524
50	52.0	5050	0.387
70	55.5	5950	0.268
95	59.5	7050	0.193
120	63.2	8150	0.153
150	66.5	9230	0.124
185	70.5	10620	0.099
240	77.5	13650	0.075
300	82.5	15950	0.06
400	90.5	19200	0.047

SELLING INFORMATION

Note: on request the cable is available with black polyethylene (PE) outer sheath

Conductor flexibility
Stranded class 2

Lead free
Yes

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