



FAST CABLES LIMITED
Technical Data Sheet

Cable - Medium Voltage XLPE

Cable Description: 1 X 240 MM2 CIRCULAR COMPACT CU XLPE COPPER TAPE COPPER WIRE

SCREEN PVC AWA PE BLACK : 19/33 KV IEC60502 PT 2 : SHEATHING

Design and Construction Data

Reference Manufacturing Standards	IEC 60228 IEC 60502 PT 2	
Max. Permissible Continuous Conductor Temp	°C	90
Max. Conductor Short Circuit Temp for 5 Seconds	°C	250
Rated Voltage ' U _o / U '	kV	19/33
Number of Conductors x Cross-Section	mm ²	1 x 240
Conductor Material & Shape	Copper & Stranded Class 2 Circular Compact Round Shape	
Insulation Material	XLPE	
Conductor Screen Thickness	mm	0.70
Insulation Nominal Thickness	mm	8.00
Insulation Screen Thickness	mm	0.70
Shield Material Type/Size	mm	Copper Tape / Wires
Bedding Material	PVC-ST2	
Bedding Nominal Thickness	mm	1.40
Armour Material Type	Aluminium Wire (AWA)	
Nominal Armour Wire Size	mm	2.50 -5%
Outer Sheath Material	PE	
Sheath Material Thickness	mm	2.70
Colour of Outer Sheath	Black	
Approximate Cable Overall Diameter	mm	54.98
Approximate Cable Weight	Kg/km	4874
Cable Length	Meter	500 ± 5%

Electrical Data

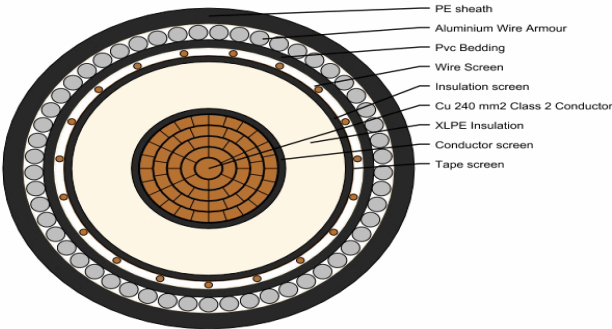
Max Conductor DC resistance @ 20 °C	ohm/km	0.0754
Max Shield DC resistance @ 20 °C	ohm/km	0.727
High Voltage Test at 63 kV for 5 min	No Breakdown Shall Occur	
Partial Discharge test (max)	pC	10
Max Phase Conductor Short Circuit Current @ 1 Second	kA	34.32
Current Carrying Capacity		
Laid in Free air @ 30 °C Ambient Temperature	Amp	635
Laid in Duct @ 20 °C	Amp	432
Laid in Ground @ 20 °C	Amp	447
Depth of laying in ground	m	0.80
Soil Thermal Resistivity	K.m/W	1.50
Minimum Bending Radius	mm	15 D
The Cable shall meet all Test requirements	IEC 60228 IEC 60502 PT 2 IEC 60332-1	

Cable Marking

1X240 MM SQ CU/XLPE/PVC/AWA/PE 33 kV IEC 60228, 60502-2 FAST CABLES LTD Y.O.M - METER MARKED
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Cable Drawing



1 X 240 MM2 CIRCULAR COMPACT CU XLPE COPPER TAPE COPPER WIRE SCREEN PVC AWA PE BLACK 19/33 KV IEC60502 PT 2 : SHEATHING		Approx. Diameter
Stranded Copper Conductor with Round shape	mm	17.60~19.20
Xlpe Insulated	mm	36.60
Bedding	mm	44.18
Aluminium wire Armour (AWA)	mm	49.18
Outer Sheathing	mm	54.98