

Cable - Medium Voltage XLPE

Cable Description: 3 X 185 MM2 CIRCULAR COMPACT CU XLPE COPPER TAPE SCREEN PVC

BLACK : 8.7/15 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 ' Uo / U '	kV	8.7/15
Number of Conductors x Cross-Section	mm ²	3 x 185
Conductor Material & Shape	Copper & Stranded Class 2 Circular Compact Round Shape	
Insulation Material	XLPE	
Conductor Screen Thickness	mm	0.70
Insulation Nominal Thickness	mm	4.50
Insulation Screen Thickness	mm	0.70
Insulation Color Stripes	RED,YELLOW,BLUE	
Shield Material Type/Size	mm	Copper Tape
Outer Sheath Material	mm	PVC-ST2
Sheath Material Thickness	mm	3.10
Colour of Outer Sheath	Black	
Approximate Cable Overall Diameter	mm	67.94
Approximate Cable Weight	Kg/km	8020
Cable Length	Meter	500 ± 5%

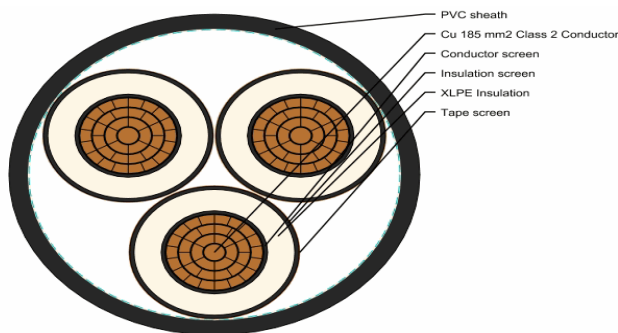
Electrical Data

Max Conductor DC resistance @ 20 °C	ohm/km	0.0991
High Voltage Test at 30.5kV for 5 min	No Breakdown Shall Occur	
Partial Discharge test (max)	pC	10
Max Phase Conductor Short Circuit Current @ 1 Second	kA	26.45
Current Carrying Capacity		
Laid in Free air @ 30 °C Ambient Temperature	Amp	455
Laid in Duct @ 20 °C	Amp	336
Laid in Ground @ 20 °C	Amp	377
Depth of laying in ground	m	0.80
Soil Thermal Resistivity	K.m/W	1.5
Minimum Bending Radius	mm	15 D
The Cable shall meet all Test requirements	IEC 60228 IEC 60502 PT 2 IEC 60332-1	

Cable Marking

3X185 MM SQ CU/XLPE/PVC 15 kV IEC 60228, 60502-2 FAST CABLES LTD Y.O.M - METER MARKED

Cable Drawing



3 X 185 MM2 CIRCULAR COMPACT CU XLPE COPPER TAPE SCREEN PVC BLACK 8.7/15 KV IEC60502 PT 2 : SHEATHING	Approx. Diameter	
Stranded Aluminum Conductor with Round shape	mm	15.30~16.80
XLpe Insulated	mm	26.60
Laid up cores	mm	61.34
Outer Sheathing	mm	67.94