

Cable - Medium Voltage XLPE

Cable Description: 3 X 35 MM2 CIRCULAR COMPACT AL 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 35
Conductor Material & Shape	Aluminum & 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	2.40
Colour of Outer Sheath	Black	
Approximate Cable Overall Diameter	mm	47.07
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Approximate Cable Weight	Kg/km	1989
Cable Length	Meter	500 ± 5%

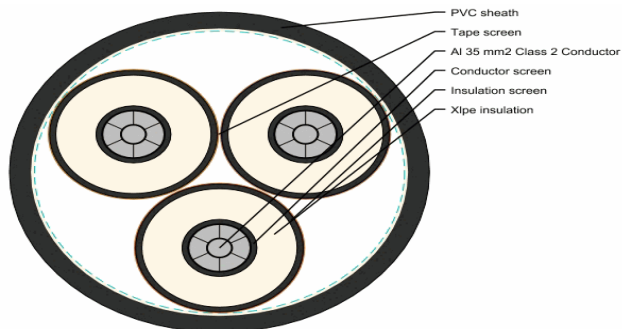
Electrical Data

Max Conductor DC resistance @ 20 °C	ohm/km	0.868
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	3.29
Current Carrying Capacity		
Laid in Free air @ 30 °C Ambient Temperature	Amp	132
Laid in Duct @ 20 °C	Amp	103
Laid in Ground @ 20 °C	Amp	119
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

3X35 MM SQ AL/XLPE/PVC 15 kV IEC 60228, 60502-2 FAST CABLES LTD Y.O.M - METER MARKED
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Cable Drawing



3 X 35 MM2 CIRCULAR COMPACT AL XLPE COPPER TAPE SCREEN PVC BLACK 8.7/15 KV IEC60502 PT 2 : SHEATHING	Approx. Diameter	
Stranded Aluminum Conductor with Round shape	mm	6.60~7.50
Xlpe Insulated	mm	17.4
Laid up cores	mm	41.47
Outer Sheathing	mm	47.07