



Cable - Medium Voltage XLPE

Cable Description: 3 X 70 MM2 CIRCULAR COMPACT AL XLPE COPPER TAPE SCREEN PVC SWA

PVC BLACK : 6.35/11 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	6.35/11
Number of Conductors x Cross-Section	mm ²	3 x 70
Conductor Material & Shape	Aluminum & Stranded Class 2 Circular Compact Round Shape	
Insulation Material	XLPE	
Conductor Screen Thickness	mm	0.70
Insulation Nominal Thickness	mm	3.40
Insulation Screen Thickness	mm	0.70
Insulation Color Stripes	RED,YELLOW,BLUE	
Shield Material Type/Size	mm	Copper Tape
Bedding Material	mm	PVC-ST2
Bedding Nominal Thickness	mm	1.50
Armour Material Type	Galvanized Steel Wire (SWA)	
Nominal Armour Wire Size	mm	2.50 -5%
Outer Sheath Material	mm	PVC-ST2
Sheath Material Thickness	mm	2.80
Colour of Outer Sheath	Black	
Approximate Cable Overall Diameter	mm	57.38
Approximate Cable Weight	Kg/km	5098
Cable Length	Meter	500 ± 5%

Electrical Data

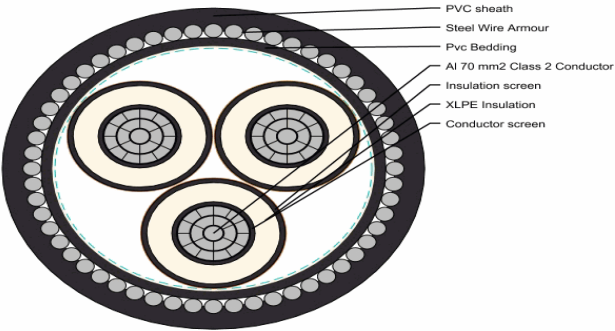
Max Conductor DC resistance @ 20 °C	ohm/km	0.443
High Voltage Test at 22kV for 5 min	No Breakdown Shall Occur	
Partial Discharge test (max)	pC	10
Max Phase Conductor Short Circuit Current @ 1 Second	kA	6.58
Current Carrying Capacity		
Laid in Free air @ 30 °C Ambient Temperature	Amp	196
Laid in Duct @ 20 °C	Amp	150
Laid in Ground @ 20 °C	Amp	171
Depth of laying in ground	m	0.80
Soil Thermal Resistivity	K.m/W	1.5
Minimum Bending Radius	mm	12 D
The Cable shall meet all Test requirements	IEC 60228 IEC 60502 PT 2 IEC 60332-1	

Cable Marking

3X70 MM SQ AL/XLPE/PVC/SWA/PVC 11KV IEC 60228, 60502-2 FAST CABLES LTD Y.O.M - METER MARKED

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Cable Drawing



3 X 70 MM2 CIRCULAR COMPACT AL XLPE COPPER TAPE SCREEN PVC SWA PVC BLACK 6.35/11 KV IEC60502 PT 2 : SHEATHING		Approx. Diameter
Stranded Aluminum Conductor with Round shape	mm	9.30~10.20
Xlpe Insulated	mm	18.10
Laid up cores	mm	42.98
Bedding	mm	46.78
Galvanized Steel Wire Armour (SWA)	mm	51.78
Outer Sheathing	mm	57.38