

Cable - Low Voltage Power

Cable Description: 3 X 50 MM2 SECTOR 120 CU (MGT) XLPE LSZH BLACK 600/1000 V IEC60502

PT 1 : SHEATHING

Design and Construction Data

Reference Manufacturing Standards	IEC 60228 IEC 60502 PT 1 BS EN 50200 BS 6387	
Max. Permissible Continuous Conductor Temp	°C	90
Max. Conductor Short Circuit Temp for 5 Seconds	°C	250
Rated Voltage ' Uo / U '	V	600/1000
Number of Conductors x Cross-Section	mm ²	3 x 50
Conductor Material & Shape	Copper & Stranded Class 2 Sector 120	
Temperature Resistance of Mica Tape	°C	950
Thickness of Mica Tape	mm	0.14
Time Duration of Mica Tape	Minutes	180
Insulation Material	XLPE	
Insulation Nominal Thickness	mm	1.00
Insulation Color	Red, Yellow, Blue	
Outer Sheath Material	LSZH	
Sheath Material Thickness	mm	1.80
Colour of Outer Sheath	Black	
Approximate Cable Overall Diameter	mm	23.98
Approximate Cable Weight	Kg/km	1675
Cable Length	Meter	500 ±5%

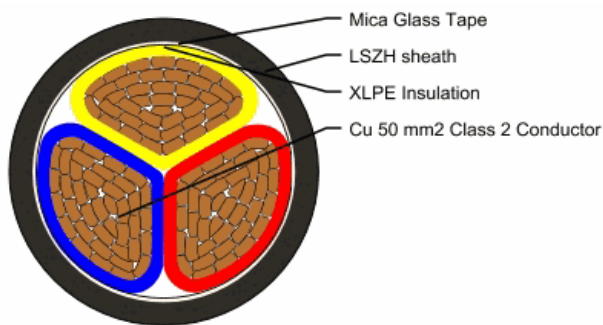
Electrical Data

Max Conductor DC resistance @ 20 °C	ohm/km	0.387
High Voltage Test at 3.5 kV for 5 min	No Breakdown Shall Occur	
Min. Insulation Resistance Test @ 90 °C	M.Ω.Km	3.67
Max Conductor Short Circuit Current @ 1 Second	kA	7.15
Current Carrying Capacity		
Laid in Free air or on perforated cable tray @ 30 °C	Amp	192
Laid In Conduit or in Trunking @30 °C	Amp	154
Minimum Bending Radius	mm	8D
The Cable shall meet all Test requirements	IEC 60228 IEC 60502 PT 1 BS EN 50200 BS 6387	

Cable Marking

3x50mm² CU/MICA TAPE/XLPE/LSZH ELECTRIC CABLE 0.6/1kV IEC 60228, 60502-1 FAST CABLES LTD Manufacturing Year - Meter marked

Cable Drawing



3 X 50 MM2 SECTOR 120 CU (MGT) XLPE LSZH BLACK 600/1000 V IEC60502 PT 1 : SHEATHING	Approx. Diameter	
Stranded Copper Conductor with Sector shape	mm	6.91x11.82
Insulated	mm	9.47x14.38
Laid up Cores	mm	19.98
LSZH-FR Outer Sheathing	mm	23.98