

Cable - Low Voltage Power

Cable Description: 4 X 120 MM2 SECTOR 90 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	4 x 120
Conductor Material & Shape	Copper & Stranded Class 2 Sector 90	
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	1.20
Insulation Color	Red, Yellow, Blue, Black	
Outer Sheath Material	LSZH	
Sheath Material Thickness	mm	2.20
Colour of Outer Sheath	Black	
Approximate Cable Overall Diameter	mm	39.88
Approximate Cable Weight	Kg/km	5163
Cable Length	Meter	500 ±5%

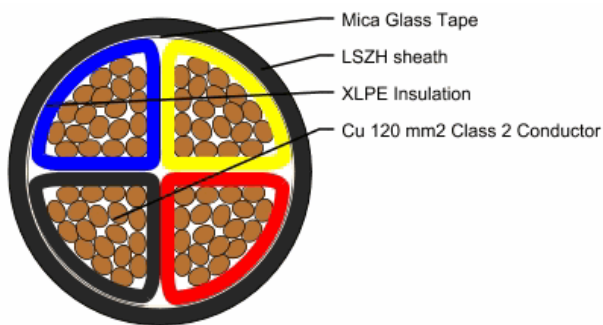
Electrical Data

Max Conductor DC resistance @ 20 °C	ohm/km	0.153
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	17.16
Current Carrying Capacity		
Laid in Free air or on perforated cable tray @ 30 °C	Amp	346
Laid In Conduit or in Trunking @30 °C	Amp	268
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

4x120mm² CU/MICA TAPE/XLPE/LSZH ELECTRIC CABLE 0.6/1kV IEC 60228, 60502-1 FAST CABLES LTD Manufacturing Year - Meter marked

Cable Drawing



4 X 120 MM2 SECTOR 90 CU (MGT) XLPE LSZH BLACK 600/1000 V IEC60502 PT 1 : SHEATHING	Approx. Diameter	
Stranded Copper Conductor with Sector shape	mm	12.36x17.43
Insulated	mm	15.32x20.39
Laid up Cores	mm	35.08
LSZH-FR Outer Sheathing	mm	39.88