FAST CABLES LIMITED

Technical Data Sheet

Cable - Low Voltage Power

Cable Description: 1 X 2.5 MM2 CU (MGT) XLPE LSZH RED : 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	mm²	1 x 2.5
Conductor Material & Shape		Copper & Stranded Class 2 Circular Compacted
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	0.70
Insulation Color		Natural
Outer Sheath Material		LSZH
Sheath Material Thickness	mm	1.40
Colour of Outer Sheath		Red
Approximate Cable Overall Diameter	mm	6.77
Approximate Cable Weight	Kg/km	72
Cable Length	Meter	1000 ±5%

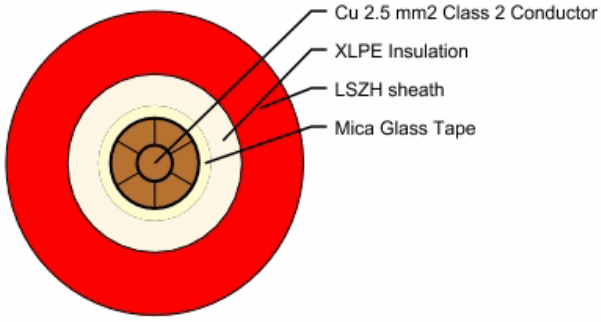
Electrical Data

Max Conductor DC resistance @ 20 °C	ohm/km	7.41
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	0.358
Current Carrying Capacity		
Laid in Free air or on perforated cable tray @ 30 °C	Amp	
Laid In Conduit or in Trunking @30 °C	Amp	31
Minimum Bending Radius	mm	6D
The Cable shall meet all Test requirements		IEC 60228 IEC 60502 PT 1 BS EN 50200 BS 6387

Cable Marking

1x2.5mm² CU/MICA TAPE/XLPE/LSZH ELECTRIC CABLE 0.6/1kV IEC 60228, 60502-1 FAST CABLES LTD Manufacturing Year - Meter marked

Cable Drawing



1 X 2.5 MM2 CU (MGT) XLPE LSZH RED : 600/1000 V IEC60502 PT 1 : SHEATHING		Approx. Diameter
Stranded Copper Conductor with round shape	mm	2.01
Insulated	mm	3.97
LSZH-FR Outer Sheathing	mm	6.77

FAST CABLES LIMITED

Technical Data Sheet

Cable - Low Voltage Power

Cable Description: 2 X 1.5 MM2 FLEXIBLE 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	mm²	2 x 1.5
Conductor Material & Shape		Copper & Flexible Class 5
Wire Size	mm	0.26 (Max)
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	0.70
Insulation Color		Red, Black
Outer Sheath Material		LSZH
Sheath Material Thickness	mm	1.80
Colour of Outer Sheath		Black
Approximate Cable Overall Diameter	mm	10.88
Approximate Cable Weight	Kg/km	153
Cable Length	Meter	1000 ±5%

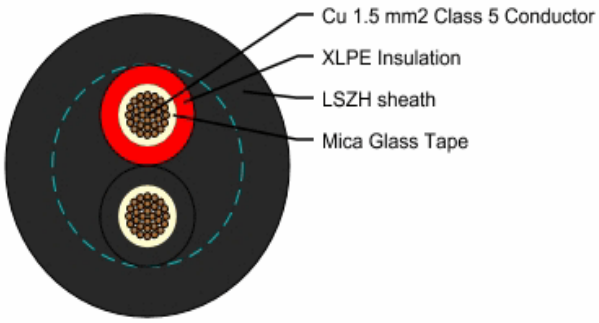
Electrical Data

Max Conductor DC resistance @ 20 °C	ohm/km	13.30
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	0.215
Current Carrying Capacity		
Laid in Free air or on perforated cable tray @ 30 °C	Amp	26
Laid In Conduit or in Trunking @30 °C	Amp	22
Minimum Bending Radius	mm	6D
The Cable shall meet all Test requirements		IEC 60228 IEC 60502 PT 1 BS EN 50200 BS 6387

Cable Marking

2x1.5mm² FLEXIBLE CU/MICA TAPE/XLPE/LSZH ELECTRIC CABLE 0.6/1kV IEC 60228, 60502-1 FAST CABLES LTD Manufacturing Year - Meter marked

Cable Drawing



2 X 1.5 MM2 FLEXIBLE CU (MGT) XLPE LSZH BLACK : 600/1000 V IEC60502 PT 1 : SHEATHING		Approx. Diameter
Flexible Copper Conductor with round shape	mm	1.68
Insulated	mm	3.64
Laid up Cores	mm	7.28
LSZH-FR Outer Sheathing	mm	10.88

FAST CABLES LIMITED

Technical Data Sheet

Cable - Low Voltage Power

Cable Description: 2 X 1.5 MM2 SOLID CU (MGT) XLPE LSZH ORANGE 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	mm²	2 x 1.5
Conductor Material & Shape		Copper & Solid Class 1
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	0.70
Insulation Color		Red, Black
Outer Sheath Material		LSZH
Sheath Material Thickness	mm	1.80
Colour of Outer Sheath		Orange
Approximate Cable Overall Diameter	mm	10.28
Approximate Cable Weight	Kg/km	140
Cable Length	Meter	1000 ±5%

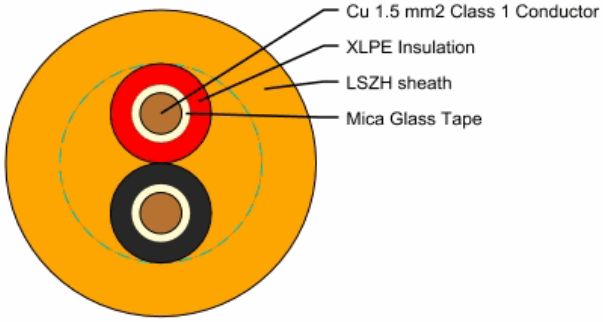
Electrical Data

Max Conductor DC resistance @ 20 °C	ohm/km	12.10
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	0.215
Current Carrying Capacity		
Laid in Free air or on perforated cable tray @ 30 °C	Amp	26
Laid In Conduit or in Trunking @30 °C	Amp	22
Minimum Bending Radius	mm	6D
The Cable shall meet all Test requirements		IEC 60228 IEC 60502 PT 1 BS EN 50200 BS 6387

Cable Marking

2x1.5mm² SOLID CU/MICA TAPE/XLPE/LSZH ELECTRIC CABLE 0.6/1kV IEC 60228, 60502-1 FAST CABLES LTD Manufacturing Year - Meter marked

Cable Drawing



2 X 1.5 MM2 SOLID CU (MGT) XLPE LSZH ORANGE 600/1000 V IEC60502 PT 1 : SHEATHING		Approx. Diameter
Solid Copper Conductor with round shape	mm	1.38
Insulated	mm	3.34
Laid up Cores	mm	6.68
LSZH-FR Outer Sheathing	mm	10.28

FAST CABLES LIMITED

Technical Data Sheet

Cable - Low Voltage Power

Cable Description: 3 X 2.5 MM2 FLEXIBLE CU (MGT) XLPE LSZH GREY 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	mm²	3 x 2.5
Conductor Material & Shape		Copper & Flexible Class 5
Wire Size	mm	0.26 (Max)
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	0.70
Insulation Color		Red, Yellow, Blue
Outer Sheath Material		LSZH
Sheath Material Thickness	mm	1.80
Colour of Outer Sheath		Grey
Approximate Cable Overall Diameter	mm	12.92
Approximate Cable Weight	Kg/km	221
Cable Length	Meter	1000 ±5%

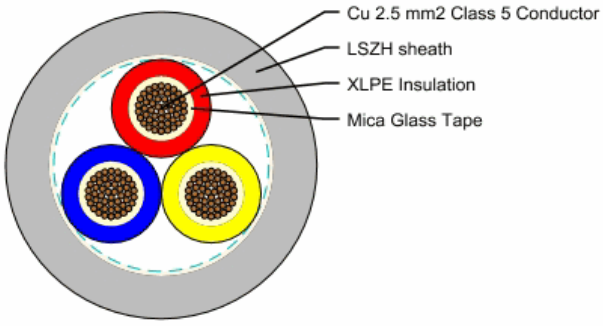
Electrical Data

Max Conductor DC resistance @ 20 °C	ohm/km	7.98
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	0.358
Current Carrying Capacity		
Laid in Free air or on perforated cable tray @ 30 °C	Amp	32
Laid In Conduit or in Trunking @30 °C	Amp	26
Minimum Bending Radius	mm	6D
The Cable shall meet all Test requirements		IEC 60228 IEC 60502 PT 1 BS EN 50200 BS 6387

Cable Marking

3x2.5mm² FLEXIBLE 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 2.5 MM2 FLEXIBLE CU (MGT) XLPE LSZH GREY 600/1000 V IEC60502 PT 1 : SHEATHING		Approx. Diameter
Flexible Copper Conductor with round shape	mm	2.17
Insulated	mm	4.13
Laid up Cores	mm	8.92
LSZH-FR Outer Sheathing	mm	12.92

FAST CABLES LIMITED

Technical Data Sheet

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	mm²	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%

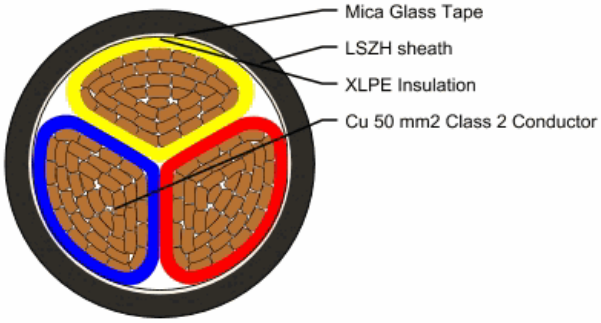
Electrical Data

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

FAST CABLES LIMITED

Technical Data Sheet

Cable - Low Voltage Power

Cable Description: 4 X 6 MM2 CIRCULAR COMPACT 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	mm²	4 x 6
Conductor Material & Shape		Copper & Stranded Class 2 Circular Compacted
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	0.70
Insulation Color		Red, Yellow, Blue, Black
Outer Sheath Material		LSZH
Sheath Material Thickness	mm	1.80
Colour of Outer Sheath		Black
Approximate Cable Overall Diameter	mm	16.29
Approximate Cable Weight	Kg/km	447
Cable Length	Meter	1000 ±5%

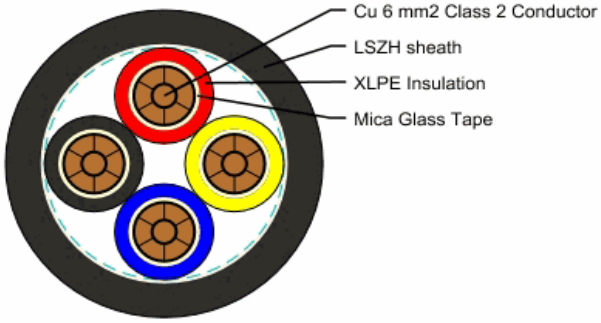
Electrical Data

Max Conductor DC resistance @ 20 °C	ohm/km	3.08
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	0.858
Current Carrying Capacity		
Laid in Free air or on perforated cable tray @ 30 °C	Amp	54
Laid In Conduit or in Trunking @30 °C	Amp	44
Minimum Bending Radius	mm	6D
The Cable shall meet all Test requirements		IEC 60228 IEC 60502 PT 1 BS EN 50200 BS 6387

Cable Marking

4x6mm² 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 6 MM2 CIRCULAR COMPACT CU (MGT) XLPE LSZH BLACK 600/1000 V IEC60502 PT 1 : SHEATHING		Approx. Diameter
Stranded Copper Conductor with round shape	mm	3.12
Insulated	mm	5.08
Laid up Cores	mm	12.29
LSZH-FR Outer Sheathing	mm	16.29

FAST CABLES LIMITED

Technical Data Sheet

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	mm²	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%

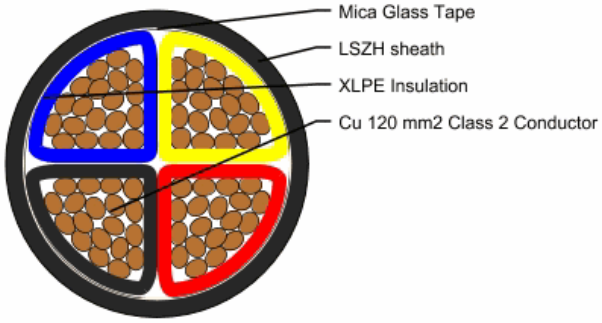
Electrical Data

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