FAST CABLES LIMITED

Technical Data Sheet

Cable - Low Voltage Power

Cable Description: 1 X 4 MM2 FLEXIBLE TCU XLPO XLPO PHOTOVOLTAIC CABLE RED : 1500 V DC BSEN50618 : SHEATHING

Design and Construction Data

Reference Manufacturing Standards		IEC 60228 BS EN 50618
Max. Permissible Continuous Conductor Temp	°C	90
Max. Conductor Short Circuit Temp for 5 Seconds	°C	250
Rated Voltage DC ' Uo / U '	V	1500/1500
Rated Voltage AC ' Uo / U '	V	1000/1000
Number of Conductors x Cross-Section	mm²	1 x 4
Conductor Material & Shape		Tinned Copper & Flexible Class 5
Wire Size	mm	0.31 (Max)
Insulation Material		XLPO
Insulation Nominal Thickness	mm	0.70
Insulation Color		Natrual
Outer Sheath Material		XLPO
Sheath Material Thickness	mm	0.80
Colour of Outer Sheath		Red
Upper Limit Cable Overall Diameter	mm	6.60
Approximate Cable Weight	Kg/km	63
Cable Length	Meter	1000 ±5%

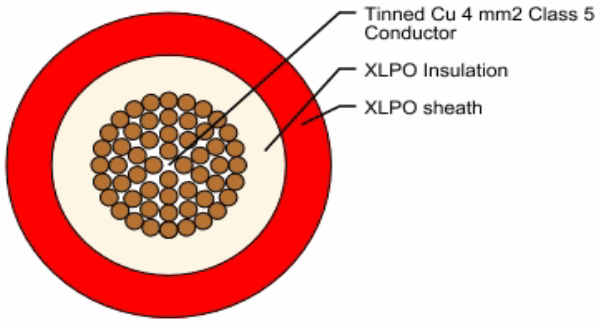
Electrical Data

Max Conductor DC resistance @ 20 °C	ohm/km	5.09
High Voltage Test at 6.5 kV AC for 5 min		No Breakdown Shall Occur
High Voltage Test at 15 kV DC for 5 min		No Breakdown Shall Occur
Min. Insulation Resistance Test @ 20 °C	M.Ω.Km	580
Current Carrying Capacity		
Laid Single Cable Free in air @ 60 °C	Amp	55
Laid Single Cable on a surface @ 60 °C	Amp	52
Laid Two Loaded Cables Touching on a surface @ 60 °C	Amp	44
Minimum Bending Radius	mm	6D
The Cable shall meet all Test requirements		IEC 60228 BS EN 50618

Cable Marking

FAST CABLES LTD. H1Z2Z2-K 1X4mm² PHOTOVOLTAIC CABLE 1500 V (DC).IEC 60228, BS EN 50618 Manufacturing Year - Meter marked

Cable Drawing



1 X 4 MM2 FLEXIBLE TINNED CU XLPO XLPO PHOTOVOLTAIC CABLE RED : 1500 V DC BSEN50618 : SHEATHING		Approx. Diameter
Flexible Copper Conductor with round shape	mm	2.75
Insulated	mm	4.15
XLPO-FR Outer Sheathing	mm	5.75

FAST CABLES LIMITED

Technical Data Sheet

Cable - Low Voltage Power

Cable Description: 1 X 6 MM2 FLEXIBLE TCU XLPO XLPO PHOTOVOLTAIC CABLE BLACK : 1500 V DC BSEN50618 : SHEATHING

Design and Construction Data

Reference Manufacturing Standards		IEC 60228 BS EN 50618
Max. Permissible Continuous Conductor Temp	°C	90
Max. Conductor Short Circuit Temp for 5 Seconds	°C	250
Rated Voltage DC ' Uo / U '	V	1500/1500
Rated Voltage AC ' Uo / U '	V	1000/1000
Number of Conductors x Cross-Section	mm²	1 x 6
Conductor Material & Shape		Tinned Copper & Flexible Class 5
Wire Size	mm	0.31 (Max)
Insulation Material		XLPO
Insulation Nominal Thickness	mm	0.70
Insulation Color		Natrual
Outer Sheath Material		XLPO
Sheath Material Thickness	mm	0.80
Colour of Outer Sheath		Black
Upper Limit Cable Overall Diameter	mm	7.40
Approximate Cable Weight	Kg/km	86
Cable Length	Meter	1000 ±5%

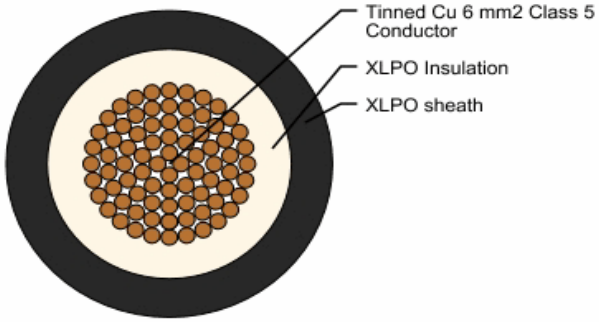
Electrical Data

Max Conductor DC resistance @ 20 °C	ohm/km	3.39
High Voltage Test at 6.5 kV AC for 5 min		No Breakdown Shall Occur
High Voltage Test at 15 kV DC for 5 min		No Breakdown Shall Occur
Min. Insulation Resistance Test @ 20 °C	M.Ω.Km	500
Current Carrying Capacity		
Laid Single Cable Free in air @ 60 °C	Amp	70
Laid Single Cable on a surface @ 60 °C	Amp	67
Laid Two Loaded Cables Touching on a surface @ 60 °C	Amp	57
Minimum Bending Radius	mm	6D
The Cable shall meet all Test requirements		IEC 60228 BS EN 50618

Cable Marking

FAST CABLES LTD. H1Z2Z2-K 1X6mm² PHOTOVOLTAIC CABLE 1500 V (DC).IEC 60228, BS EN 50618 Manufacturing Year - Meter marked

Cable Drawing



1 X 6 MM2 FLEXIBLE TINNED CU XLPO XLPO PHOTOVOLTAIC CABLE BLACK : 1500 V DC BSEN50618 : SHEATHING		Approx. Diameter
Flexible Copper Conductor with round shape	mm	3.37
Insulated	mm	4.77
XLPO-FR Outer Sheathing	mm	6.37

FAST CABLES LIMITED

Technical Data Sheet

Cable - Low Voltage Power

Cable Description: 1 X 10 MM2 TCU FLEXIBLE XLPO XLPO PHOTOVOLTAIC CABLE BLACK : 1500 V DC BSEN50618 : SHEATHING

Design and Construction Data

Reference Manufacturing Standards		IEC 60228 BS EN 50618
Max. Permissible Continuous Conductor Temp	°C	90
Max. Conductor Short Circuit Temp for 5 Seconds	°C	250
Rated Voltage DC ' Uo / U '	V	1500/1500
Rated Voltage AC ' Uo / U '	V	1000/1000
Number of Conductors x Cross-Section	mm²	1 x 10
Conductor Material & Shape		Tinned Copper & Flexible Class 5
Wire Size	mm	0.41 (Max)
Insulation Material		XLPO
Insulation Nominal Thickness	mm	0.70
Insulation Color		Natrual
Outer Sheath Material		XLPO
Sheath Material Thickness	mm	0.80
Colour of Outer Sheath		Black
Upper Limit Cable Overall Diameter	mm	8.80
Approximate Cable Weight	Kg/km	132
Cable Length	Meter	1000 ±5%

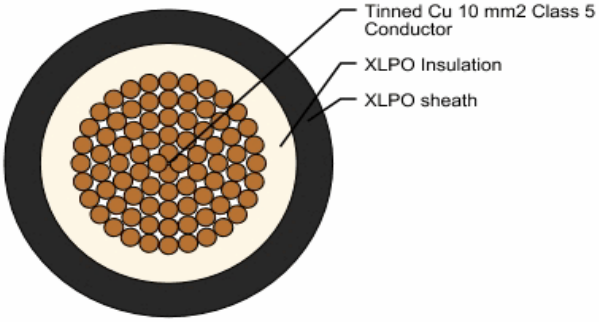
Electrical Data

Max Conductor DC resistance @ 20 °C	ohm/km	1.95
High Voltage Test at 6.5 kV AC for 5 min		No Breakdown Shall Occur
High Voltage Test at 15 kV DC for 5 min		No Breakdown Shall Occur
Min. Insulation Resistance Test @ 20 °C	M.Ω.Km	420
Current Carrying Capacity		
Laid Single Cable Free in air @ 60 °C	Amp	98
Laid Single Cable on a surface @ 60 °C	Amp	93
Laid Two Loaded Cables Touching on a surface @ 60 °C	Amp	79
Minimum Bending Radius	mm	6D
The Cable shall meet all Test requirements		IEC 60228 BS EN 50618

Cable Marking

FAST CABLES LTD. H1Z2Z2-K 1X10mm² PHOTOVOLTAIC CABLE 1500 V (DC).IEC 60228, BS EN 50618 Manufacturing Year - Meter marked

Cable Drawing



1 X 10 MM2 FLEXIBLE TINNED CU XLPO XLPO PHOTOVOLTAIC CABLE BLACK : 1500 V DC BSEN50618 : SHEATHING		Approx. Diameter
Flexible Copper Conductor with round shape	mm	4.38
Insulated	mm	5.78
XLPO-FR Outer Sheathing	mm	7.38