

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	mm ²	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	Natural	
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%

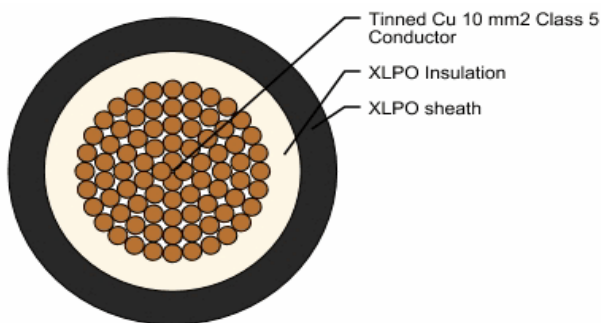
Electrical Data

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. H12222-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