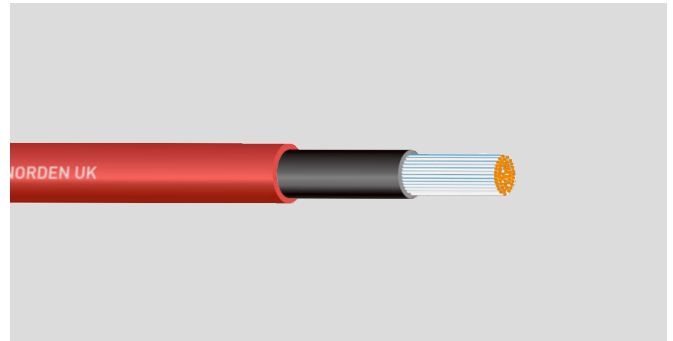


SOLAR CABLE



Norden Solar cables are designed as per IEC 62930 for external applications. These cables are constructed with Cross linked polyolefin insulation & jacket which makes cable weather & UV resistant for harsh environment installations, especially for the interconnection of grounded and underground photovoltaic Power Systems.



COMPLAINE

Weather /UV resistance: EN 50289-4-17
 Ozone resistance: EN 50396, cl. 8.1.3
 Halogen free: EN 60754-1
 Flame-resistant test: EN 60332-1-2, EN 60332-3-25 (For 6mm² & 10mm²)
 IEC62930

CABLE CONSTRUCTION

Conductor	Insulation	Outer Jacket	Jacket colour	Reference Standard
Flexible Tinned copper [Class 5]	XLPO, electron-beam cross-linked, LSHF	XLPO, electron-beam cross-linked, LSHF	Black/Red	IEC EN 60228

PHYSICAL CHARACTERISTICS

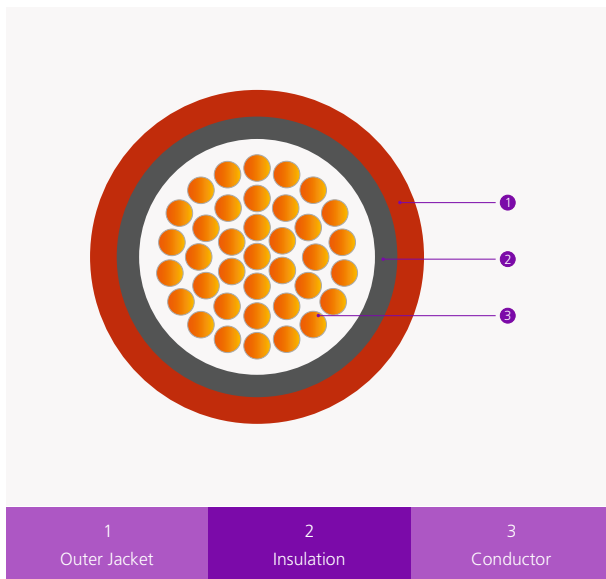
Characteristic	Value		
No. of Conductor	1 Core		
Nominal Section	4mm ²	6mm ²	10mm ²
Stranding	56 x 0.285 ± 0.005mm	84 x 0.285 ± 0.005mm	142 x 0.285 ± 0.005mm
Conductor Diameter [mm]	2.6 ± 0.04mm	3.0mm ± 0.04mm	4.4mm ± 0.04mm
Insulation Thickness (mm)	0.7mm ± 0.04mm	0.7mm ± 0.04mm	0.7 ± 0.04mm
Colour	Black	Black	Black
Nom. Jacket Thickness [mm]	0.8 ± 0.04mm	0.8 ± 0.04mm	0.8 ± 0.04mm
Nom. Outer Cable Diameter (mm)	5.6± 0.2mm	6.1± 0.2mm	7.5mm ± 0.2mm

SOLAR CABLE



ELECTRICAL & MECHANICAL CHARACTERISTICS

Characteristic	Value		
No. of Conductor	1 Core		
Nominal Section	4mm ²	6mm ²	10mm ²
Conductor Resistance at 20°C [Ω/km]	≤5.09 Ω/km	≤3.39 Ω/km	≤1.95 Ω/km
Min. Insulation resistance at 20°C	580MΩ/KM	1000MΩ/KM	420MΩ/KM
Rated voltage	DC: 1.5/1.5kV AC: 1.0/1.0 kV		
Test Voltage (AC)	AC 6.5kV, 50Hz, 5min		
Max. permitted voltage	1.8kV DC		
Spark test AC	10kV		
Short circuit temperature	250°C for 5s		
Minimum Bending radius (Fixed)	4 x Overall Diameter		
Minimum Bending radius (Flexing)	5 x Overall Diameter		
Temperature range	-40°C to +90°C, Max. temp. at conductor +120°C		



ORDERING INFORMATION

Part Number	Description
89-7005P901X	1 Core 4.0 mm ² Tinned Copper/XLPO/XLPO 1500V DC Solar Cable
89-7005PA01X	1 Core 6.0 mm ² Tinned Copper/XLPO/XLPO 1500V DC Solar Cable
89-7005PB01X	1 Core 10.0 mm ² Tinned Copper/XLPO/XLPO 1500V DC Solar Cable