

SOLAR EXTERNAL CABLE XL-LSZH



Norden Solar cables are designed as per EN 50618 & IEC 62930(ed. 1) for permanent external applications. These cables are constructed with cross-linked low smoke zero halogen insulation & jacket. Which makes cable weather & UV resistant for harsh environment installations, especially for the interconnection of grounded and underground photovoltaic Power Systems.



CABLE CONSTRUCTION

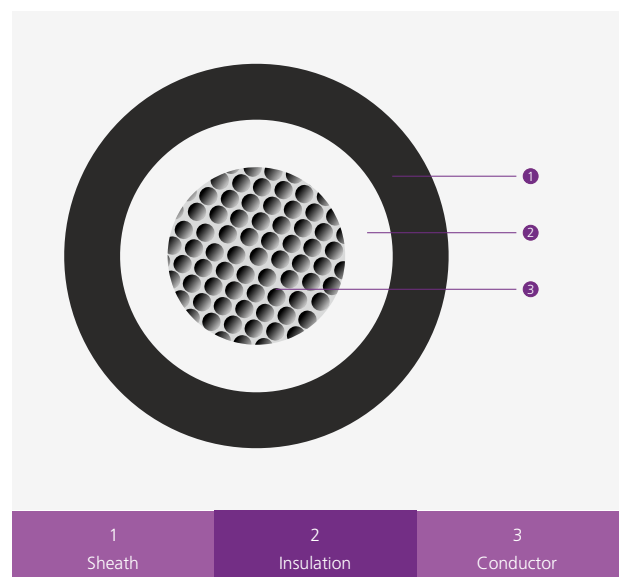
| | | |
|--|----------------------------------|--|
| Conductor Stranded Tinned Copper | Outer Jacket XLPE LSZH | Reference Standard EN50618:2014 IEC 62930(ed.1) |
| Insulation XLPE LSZH | Jacket Color Black/Red | |

PHYSICAL CHARACTERISTICS

| Characteristic | Value | | | |
|---------------------------|--------------------------------|-------------------------------|-----------------------------|------------------------------|
| No. of Conductor | 1 Core | | | |
| Conductor Size | 2.5mm ² (48/0.25mm) | 4mm ² (56/0.285mm) | 6mm ² (78/0.3mm) | 10mm ² (74/0.4mm) |
| Conductor Diameter | 2mm | 2.6mm | 3.2mm | 4mm |
| Conductor Resistance | 8.21 Ω /km@20°C | 5.09 Ω /km@20°C | 3.39 Ω /km@20°C | 1.95 Ω /km@20°C |
| Insulation Thickness | 0.75mm | 0.85 | 0.9 | 1.0 |
| Insulation Diameter | 3.5±0.2mm | 4.4±0.2mm | 5.0±0.2mm | 6.0±0.2mm |
| Nom. Jacket Thickness | 0.9mm | 0.85mm | 1.0mm | 0.9mm |
| Nom. Outer Cable Diameter | 5.4±0.2mm | 6.1±0.2mm | 7.0±0.2mm | 7.8±0.2mm |

MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

| Characteristic | Value |
|--|-----------------|
| Temperature Range (fixed installation) | -40°C to +120°C |
| Ambient Temperature | -40°C to +90°C |
| Minimum bending radius (flexing) | 15xOD |
| Minimum bending radius (fixed) | 5xOD |
| Weathering/UV-resistance | EN60811-501 |
| Ozone resistance | EN 50396 |
| Halogen free | EN50525-1 |
| Smoke density | EN61034-2 |
| Flame retardant | IEC 60332-1-2 |



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ELECTRICAL CHARACTERISTICS

| Characteristic | Unit | Value |
|---------------------------|---------|----------------------|
| Rated voltage | V | AC 1000 DC 1500 |
| Rated current | Amp | 50 |
| Max. Operating Voltage | V | DC 1800 V (EN 50618) |
| Dielectric Strength (AC) | KV/5Min | 6.5 |
| Current carrying capacity | - | EN 50618 |

ORDERING INFORMATION

| Part Number | Description |
|--------------|---|
| 89-60056801X | 2.5mm ² Solar External Cable XL-LSZH |
| 89-60056901X | 4mm ² Solar External Cable XL-LSZH |
| 89-60056A01X | 6mm ² Solar External Cable XL-LSZH |
| 89-60056B01X | 10mm ² Solar External Cable XL-LSZH |