The world is increasingly turning to renewable and sustainably sourced energy to meet an ever-growing need for power. In response to this demand, Prysmian Group is helping businesses in the solar industry convert these new opportunities into reality through innovative products and solutions.

As the solar market matures, the industry has begun to learn more about the harsh environmental conditions the cables are subjected to once installed. In response, Prysmian Group has developed an innovative carbon black core for solar photovoltaic cables to better withstand harsh environments. The first of its kind in the market, the cable features a carbon black core underneath a colorable outer layer, proven to perform better against deformation, resulting from enhancing the product’s physical characteristics. This makes a cable less susceptible to mishandling during installation while enhancing bonding compatibility in overmold processes to keep water out of connection points. These innovations enhance cable performance and sustainability by providing longer service life, lowering the overall cost of the system and emissions. Harness the power of the sun with our Carbon Black Core.

<table>
<thead>
<tr>
<th>COND. SIZE</th>
<th>NO. OF WIRES</th>
<th>BULK PART NUMBERS (BLACK/RED)</th>
<th>NOMINAL O.D.</th>
<th>MIN. INSULATION THICKNESS</th>
<th>NOMINAL DIAMETER</th>
<th>COPPER WEIGHT</th>
<th>NET WEIGHT</th>
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<tbody>
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<td>IN</td>
<td>MM</td>
<td>IN</td>
<td>Lbs/1000 Ft.</td>
<td>KGs/km</td>
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<td>MIN. INSULATION THICKNESS</td>
<td>(mm)</td>
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<td>IN</td>
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<td>MM</td>
<td>Lbs/1000 Ft.</td>
<td>KGs/km</td>
</tr>
</tbody>
</table>

**SUNGEN E - CARBON BLACK CORE WITH COLORABLE OUTER LAYER**

**12AWG - 8 AWG BARE COPPER, 19 STRAND CONDUCTORS**

| #12 | 19 | 5851.711200BS / 5851.711200BS | 0.088 | 2.24 | 0.075 | 1.91 | 0.248 | 6.30 | 20 | 30 | 41 | 61 |
| #10 | 19 | 426400BS / 439400BS | 0.110 | 2.78 | 0.075 | 1.91 | 0.274 | 6.96 | 31 | 47 | 54 | 80 |
| #8  | 19 | 426300BS / 439420BS | 0.143 | 3.63 | 0.085 | 2.16 | 0.325 | 8.26 | 51 | 76 | 81 | 120 |
| #6  | 19 | 5851.710600BS / 5851.710602BS | 0.179 | 4.55 | 0.085 | 2.16 | 0.361 | 9.17 | 79 | 118 | 114 | 170 |

**12AWG - 8 AWG BARE COPPER, 7 STRAND CONDUCTORS**

| #12 | 7 | Available Upon Request | 0.089 | 2.26 | 0.075 | 1.91 | 0.249 | 6.32 | 20 | 30 | 41 | 61 |
| #10 | 7 | 406400BS / 406400.02S | 0.113 | 2.87 | 0.075 | 1.91 | 0.273 | 6.93 | 31 | 46 | 54 | 80 |
| #8  | 7 | 426600BS / 426600.02S | 0.142 | 3.61 | 0.085 | 2.16 | 0.324 | 8.23 | 51 | 76 | 81 | 120 |
SUNGEN® + SUNGEN E Photovoltaic Wire
RHH/RHW-2, VW-1, RPVU90, FT1
UL Type PV, Single Conductor, Copper

Features & Benefits

New Product Design
Enhanced deformation resistance at high temperatures for longer service life and lower overall cost of system needed for cable performance.

Carbon Black Inner Layer
Enhanced and more stable electrical properties over a longer service life.

Uniform & Smooth Jacket
Enhanced overmold capabilities providing better watertight seal during field application and improved water resistance exceeding UL 44.

New Flame Retardant
Providing less environmental impact due to longer escape time, less heat release, less smoke and release of a lower concentration of toxic gases.

Commitment to Sustainability
At the core of Prysmian Group’s business model lies a commitment to sustainability. Prysmian seeks to achieve an efficient, effective and sustainable supply of energy and information while integrating sustainable practices throughout the value chain. The company leads global thought in the industry and action on critical climate issues by adopting a science-based approach and adhering to EPA standards to achieve net-zero emission targets for Scope 1 and 2 by 2035 and Scope 3 by 2050.

Other Product Properties

Applications
Single conductor, sunlight-resistant, direct burial photovoltaic wire rated 90°C wet or dry, 2000 V for interconnection wiring of grounded and ungrounded photovoltaic power systems as described in Section 690.31(A) and other applicable parts of the National Electrical Code® (NEC), NFPA 70.

Features
- Rated 90°C wet and dry
- Rated for direct burial
- Deformation-resistant at high temperatures
- Excellent moisture resistance, exceeds UL 44
- Stable electrical properties over a broad temperature range
- Increased flexibility
- Excellent resistance to crush and compression cuts
- UV/sunlight-resistant
- Meets cold bend and cold impact tests at -40°C

Compliances
Industry Compliances:
- UL 4703 Type PV, UL File # E343277
- c(UL) CSA C22.2 No. 271 RPVU90 File # E343277
- National Electrical Code (NEC®)
- UL 44 Type RHW-2, UL File # E39406

Flame Test Compliances:
- UL 1581 VW-1

Other Compliances:
- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable
- RoHS Compliant Directive EU 2015 / 863

Conductors
- 12 AWG thru 1000 kcmil bare compressed copper. Class B per ASTM B8
- 12 AWG thru 8 AWG bare copper, compressed, Class B stranding per ASTM B33 and B8
- 12 AWG thru 8 AWG tinned coated compressed copper. Class C stranding per ASTM B33 and B8

Print
- PRYSMIAN GROUP (PLANT OF MFG)
SUNGEN® 2000 V PV WIRE DIR BUR OR RHH OR RHW-2 (SIZE) XLPE 90°C WET OR DRY SUN RES (UL) -40°C VW-1 OR C(UL) 2000 V RPVU90 FT1 MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options
- Available in 600V
- Bare or tinned copper conductors
- Other stranding options are available upon request
- Available in Black, Red, Green and White Jacket Colors
- Available in UL