

Technical datasheet

Sunwire® DECO
coloured PV ribbon

by **LUVATA**

Sunwire® Deco is made for those who refuse to compromise between the beauty of their homes and energy efficiency. Specifically solar customers no longer have to see the visually intrusive silver lines running across their rooftop.

Sunwire Deco is photovoltaic ribbon available in various colours that blend naturally into the solar panel making the module virtually invisible on rooftops.

Sunwire Deco in black, the most popular alternative color, offers comparable energy efficiency as traditional silver PV ribbon, but maintains street appeal for more discriminant solar customers and architects.

This datasheet serves as a guide to the product specifications of Sunwire Deco. For more detailed information, talk to us.



About Luvata

Luvata is a world leader in metal solutions manufacturing and related engineering services to industries such as renewable energy, automotive, healthcare, and power generation and distribution. The company's continued success is attributed to its longevity, technological excellence and strategy of building partnerships beyond metals. Employing over 1,400 staff in 7 countries, Luvata works in partnership with customers such as ABB, CERN, Siemens and Toyota. Luvata is a group company of Mitsubishi Materials Corporation.

Base Material

| | |
|-------------------------------|--|
| Cu-OF1 CW007A (Acc. EN13602) | Electrical Conductivity 101%-103% IACS |
| Cu-ETP1 CW003A (Acc. EN13602) | Electrical Conductivity min. 100% IACS |

Dimensions*

| | |
|----------------|-----------------------|
| Thickness (mm) | 0,080 – 0,500 ± 0,007 |
| Width (mm) | 0,60-6,00 +/-0,08 |

Solder alloys (hot dipped)*

| | |
|-----------------|-------------------------------------|
| Lead-free | SnAgCu96,5/3,0/0,5, Sn100 |
| Leaded | SnPb60/40, SnPb63/37, SnPbAg62/36/2 |
| Low temperature | BiSn58/42, SnBiAg60/38/2 |

Deco Coating*

| | |
|-----------------------------|---|
| Colour | Bluish-black |
| Length | Adjustable for any PV cell size |
| Length tolerance | +/- 1 mm |
| Sequence (colour-no colour) | Customised based on the application. For example: i) A,B,...,A,B ii) A,B,A,C,D,...,A,B,A,C,D |

* Made according to customer specification

Building-integrated photovoltaics (BIPV) and building-applied photovoltaics (BAPV; retrofit) incorporate photovoltaic materials in place of traditional building materials of a home or building such as the roof, skylights or facades. The intent of both BIPV and BAPV regardless is to generate electricity for on-site use or for export to the grid. While aesthetically minded homeowners and architects want to embrace the benefits of solar and maintain curb appeal, manufacturers have struggled to satisfy both of these desires.

Not anymore. The answer to an integrated solution is here.

The most common alternative, the bluish-black Sunwire Deco, blends in perfect harmony with standard PV cells. The length and sequence of the Deco coating is adjustable for any PV cell and module size including full, half and quarter cells. The coating sequence can be customized for minimal ribbon waste.

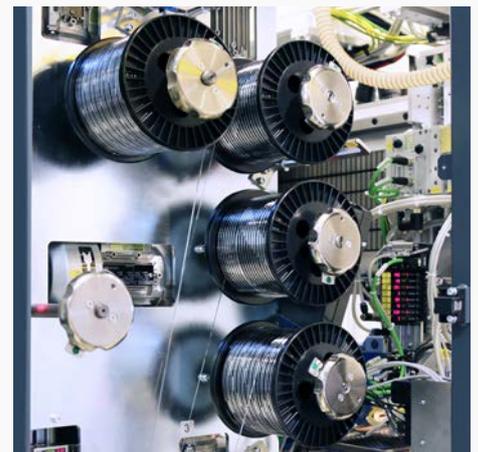
And along with the portfolio of other Sunwire products, it's still the softest and straightest PV ribbon on the market today.



Sunwire Deco in black



Available in a wide variety of spool types and sizes



Sunwire Deco is compatible with any tabbing or stringing process.
Photo courtesy of teamtechnik.

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