



### SOLAR AL FLEX WP



#### Benefits

- Maintain high volume resistance for heat and moisture exposed environments
- Applied to aluminum conductor, which is less expensive than copper conductor
- Easy installation due to light weight aluminum conductor than copper conductor
- Flexible aluminum conductors (class 5 grade) for high workability
- Use of insulation & sheath compound meeting EN50618, the new TuV certification standard
- High durability due to high insulation resistance and thermal stability

#### Application range

- For installation in conduits, in which heat and moisture can accumulate
- For the cabling between the solar modules and as extension cable between the module strings
- Gable and flat roof photovoltaic systems
- Photovoltaic plants and solar parks

#### Product features

- Flame retardant according to IEC 60332-1-2
- Halogen free according to EN 50267-2-1/-2 & EN 60684-2

- Ozone resistance according to EN 50396
- Weathering/UV-resistance according to HD 605/A1
- Long term resistance of insulation to d.c according to EN 50395
- Low smoke density according to EN 61034-2

#### Norm references / Approvals

- Cable design according to EN 50618
- Conductor design according to ISO6722-2-B & IEC60228

#### Product Make-up

- Conductor: Fine wire strands of Aluminum conductor
- Core insulation: Electron beam cross-linked Polyolefin (XLPO)
- Core insulation colour: White
- Outer sheath : Electron beam crosslinked Polyolefin (XLPO)
- Outer sheath colour: Black

#### Info

- Optimised cable design for constant high volume resistance
- Fine wired Aluminum conductor According to ISO6722, IEC60228 Cl.5
- Lightweight and economical solar cable

#### Technical data

- Conductor stranding**  
Fine wire strands of Aluminum conductor (Design acc.to ISO6722-2-B, resistance acc.to IEC60228 Cl.5)
- Minimum bending radius**  
Fixed installation: 5 x cable diameter
- Rated voltage**  
DC1500 V
- Test voltage**  
AC 6500 V
- Range of temperature**  
Fixed installation:  
-40° C up to +120 °C  
max. conductor temperature

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
<b>SOLAR AL FLEX WP</b>				
Core insulation: white / Outer sheath: black				
85120200	1 X 4	6.0	12.0	41
85120201	1 X 6	6.6	18.0	52
85120202	1 X 10	7.6	29.0	69
Core insulation: white / Outer sheath: black with red stripe				
85120203	1 X 4	6.0	12.0	41
85120204	1 X 6	6.6	18.0	52
85120205	1 X 10	7.6	29.0	69
Core insulation: white / Outer sheath: black with blue stripe				
85120206	1 X 4	6.0	12.0	41
85120207	1 X 6	6.6	18.0	52
85120208	1 X 10	7.6	29.0	69

- If not otherwise specified, all values relating to the product are nominal values. Other value information, such as tolerances, for example, can be obtained on request where available and released for publishing.
- Photographs are not to scale and do not represent detailed images of the respective products.