

## PV1500-WR Floating Solar Cable



### Advantage

- UV resistant
- Ozone resistance
- High water resistance
- High mechanical stability
- High insulation resistance

### Characteristics

- **Temperature Rating**  
-40°C to +90°C
- **Max. Temperature At Conductor**  
+120°C
- **Nominal Voltage**  
AC U<sub>0</sub>/U 1.0 / 1.0 kV  
DC U<sub>0</sub>/U 1.5 / 1.5 kV
- **Maximum Permissible DC Voltage**  
1.8 kV
- **Min. Bending Radius**  
Fixed installation 5x cable Ø
- **Approvals**  
2PFG2750 R 50586755

### Cable Structure

- **Conductor:** IEC60228 Class 5 Tinned copper
- **Insulation:** XLPO black colour
- **Jacket:** XLPO black or red colour

### Test Item

- **Long Term Resistance Of Insulation** acc. to 2 PFG 2750 Annex D
- **Flame Retardant** acc. to DIN EN60332-1-2
- **UV-resistant** acc. to IEC62930 Annex E
- **Ozone-resistant** acc. to DIN EN60811-403

### Application

The floating solar cable is specially designed for floating power stations, compatible with all major connectors, certified according to 2 PFG 2750/09.20, is designed to fulfill the highest requirements for PV applications on waters & reservoirs. An outstanding water- and UV-resistance ensures a high failure safety and a long lifetime.

| Cross Section (mm <sup>2</sup> ) | Conductor Stranded O.D. (mm) | Insulation Thickness (mm) | Jacket Thickness (mm) | Cable O.D. Ref. Range (mm) | Approximate Weight (kg/km) | Conductor Resistance Max (Ω/km, 20°C) |
|----------------------------------|------------------------------|---------------------------|-----------------------|----------------------------|----------------------------|---------------------------------------|
| 2.5                              | 2.0                          | 0.7                       | 0.8                   | 5.10±0.15                  | 43                         | 8.21                                  |
| 4                                | 2.5                          | 0.7                       | 0.8                   | 5.50±0.15                  | 57                         | 5.09                                  |
| 6                                | 3.0                          | 0.7                       | 0.8                   | 6.10±0.15                  | 76                         | 3.39                                  |
| 10                               | 4.0                          | 0.8                       | 0.8                   | 7.20±0.20                  | 122                        | 1.95                                  |
| 16                               | 5.5                          | 0.9                       | 0.9                   | 9.10±0.30                  | 193                        | 1.24                                  |
| 25                               | 6.8                          | 1.0                       | 1.0                   | 10.80±0.50                 | 289                        | 0.795                                 |
| 35                               | 8.1                          | 1.1                       | 1.1                   | 12.50±0.50                 | 398                        | 0.565                                 |
| 50                               | 9.8                          | 1.2                       | 1.2                   | 14.60±0.50                 | 530                        | 0.393                                 |
| 70                               | 11.6                         | 1.2                       | 1.2                   | 16.40±0.50                 | 744                        | 0.277                                 |
| 95                               | 13.3                         | 1.3                       | 1.3                   | 18.50±0.80                 | 967                        | 0.210                                 |
| 120                              | 15.2                         | 1.3                       | 1.3                   | 20.40±0.80                 | 1200                       | 0.164                                 |
| 150                              | 16.8                         | 1.4                       | 1.4                   | 22.40±0.80                 | 1505                       | 0.132                                 |
| 185                              | 18.9                         | 1.6                       | 1.6                   | 25.30±1.20                 | 1897                       | 0.108                                 |
| 240                              | 21.6                         | 1.7                       | 1.7                   | 28.40±1.20                 | 2438                       | 0.0817                                |
| 300                              | 23.0                         | 1.8                       | 1.8                   | 30.20±1.50                 | 2921                       | 0.0654                                |
| 400                              | 26.8                         | 2.0                       | 2.0                   | 34.80±1.50                 | 3843                       | 0.0495                                |

Note: Please refer to the above technical reference number for your reference, please check the technical section of our department for your request.